



December 19, 2024

Fremont County, CO
615 Macon Avenue
Canon City, CO 81212

RE: Commercial Plan Review and Permitting: AT&T MRUTH076240
Site Address: S 1/2 of Nw 1/4 of Section 25 Township 18 North, Canon City, CO 81212-9763

AT&T is making an application for a Zoning Permit to modify an existing wireless telecommunications facility at the address above.

Enclosed are the following items for your review:

- (1) copy of Tower Collocation Application
- (1) copy of lease
- (1) copy of Letter of authorization
- (2) copies of Construction Drawings
- (1) copy of Structural Analysis

Please call for check issuance or credit card payment of any fees due. If you need any further information, please let me know.

Thank you,

Scout Carruthers
Crafton Communications
205-545-5905 office
scarruthers@craftongroup.com

DEC 23 2024



**FREMONT COUNTY
COLLOCATION OF ANTENNA ON AN EXISTING TOWER Zoning
APPLICATION**

1. Name and Number of Existing SRU Permit _____
2. Name: Scout Carruthers - Authorized Agent Address: 2918 Clairmont Avenue South
 City: Birmingham State: AL Zip Code: 35205
 Telephone #: 2055455905 Facsimile # _____
 Name of Contact: _____ Email Address: scarruthers@craftongroup.com
3. The Applicant Applying for Collocation is:
 Name: AT&T Address: _____
 City: _____ State: _____ Zip Code: _____
 Telephone #: _____ Facsimile # _____
 Name of Contact: _____ Email Address: _____
4. Property Owner: American Tower Corporation Address: 10 Presidential Way
 City: Woburn State: MA Zip Code: 01801
 Telephone #: (972)999-8900 Facsimile #: _____
 Name of Contact: _____ Email Address: _____
5. Consultant: _____ Address: _____
 City: _____ State: _____ Zip Code: _____
 Telephone #: _____ Facsimile # _____
 Name of Contact: _____ Email Address: _____

Please read prior to completion of this application

An application for Special Review Use Permit, instead of a Collocation Application, will be required for the following:

1. An increase in the height of the existing tower;
2. The relocation of an existing tower;
3. The placement of an additional tower on the existing tower site;
4. An attachment of an antenna on an existing non-commercial tower, which is less than one-hundred (100) feet in height.

Any application which is not complete or does not include all minimum submittal requirements will not be accepted by the Fremont County Department of Planning and Zoning (Department).

The applicant shall provide one (1) original document of the application and all of its attachments (*copies of deeds, contracts, leases etcetera are acceptable*) at the time of application submittal. After submittal, the Department will review the application and all attachments and prepare a Department Submittal Deficiency and Comment Letter (D & C Letter), which will list the deficiencies, comments and questions

about the application, which must be addressed by the applicant. The applicant shall provide one (1) original document of all requirements of the D & C letter to the Department.

Attachments can be made to this application to provide expanded narrative for any application item including supportive documentation or evidence for provided application item answers. Please indicate at the application item that there is an attachment and label it as an exhibit with the application item number, a period and the number of the attachment for that item (*as an example, the first attached document providing evidence in support of the answer given at application item number 22 would be marked - Exhibit 22.1, the fifth attached document supporting the narrative provided for application item 22 would be marked - Exhibit 22.5*). **Please label all exhibits in the lower right-hand corner of the page.**

An additional review fee of two-hundred fifty dollars (\$250.00) will be charged to the applicant, if all deficiencies as per the initial D & C Letter are not adequately addressed or provided. Each subsequent D & C Letter, based on resubmitted items, will result in another two-hundred fifty dollar (\$250.00) review fee. All such fees shall be paid along with the deficiency submittal, prior to any further review of the application.

If the application is approved by the Department, with contingencies and the contingencies are not submitted or addressed within six (6) months after approval, an additional fee of one-hundred fifty dollars (\$150.00) will be charged to the applicant for a request for an extension of time to submit the contingencies. All such fees shall be paid along with a written request, explaining the need for extension.

The Department may require additional information at any time during the application process as may be deemed necessary in determining if the application is in compliance with all applicable regulations and to make an informed decision with regard to recommendations, approval or disapproval of the application.

6. The legal description and/or address of the existing site is: AT&T upgrade of existing cell tower antennas, RRUs, and BBUs. Please see plans for details.
7. The type of construction of the existing tower is: Upgrade
8. The total height of the existing tower (*with antenna*) is 111 feet.
9. What will be the total height of the tower (*with antenna(s)*) after collocation? 111 feet.
10. The existing tower currently has 6 antennas.
11. After the proposed collocation the tower would house 3 antennas.
12. Please provide documentation from a Licensed Professional Engineer demonstrating that the tower is capable of accommodating the proposed number of antennas. (*Mark as EXHIBIT 13.1*)
13. The existing site contains _____ accessory structures.
14. Will the proposed collocation require additional accessory structures? Yes --- No If yes, please provide how many, the sizes, the heights, the location and the reason such additional structures are necessary (*a new site plan may be required*): _____

15. If a design plan addressing materials, colors, textures, screening and landscaping in the design of the tower or antenna was required with the issuance of the original permit, will it be adequate for the proposed collocation? Yes --- No If no, it may be required to comply with the original design plan.
16. The existing site contains _____ off-street parking spaces.
17. Will the proposed collocation require additional off-street parking spaces? Yes --- No If yes, please provide how many additional spaces will be necessary: _____ off-street parking spaces.
18. Was surfacing, lighting and or landscaping of driveways and parking areas required with issuance of the original permit? Yes --- No If no, was it waived by the Board? Yes --- No
19. Will the surfacing, lighting and or landscaping of driveways and parking areas required with issuance of the original permit be adequate for the proposed collocation? Yes --- No Please explain: _____

20. Will the existing access to the site be adequate for the proposed collocation? Yes --- No If No, what is the proposed access for the proposed collocation? _____

21. Was a stormwater drainage plan required and approved with the issuance of the original permit? Yes --- No If yes, will the stormwater drainage plan required and approved with the issuance of the original permit be adequate with the addition of the accessory structures (if any)? Yes --- No Please explain: _____

22. Please explain how the existing tower and additional uses meet the minimum requirements of the Federal Aviation Administration. _____

23. If the existing permit holder is not the site property owner, does the agreement, lease, or the like between the site property owner and the existing permit holder allow the collocation? Yes --- No Please show (highlight) in the agreement, lease or the like that grants the permission to collocate.
24. Please attach a copy of a lease or agreement between the permit holder and the collocation applicant as right to use of the tower by the collocation applicant, marked as Exhibit 25.1.
25. A submittal fee of \$250.00 must accompany this application (Check # _____ cash)

Collocation Applicant's Endorsement:

By signing this Application, the Applicant, or the agent/representative acting with due authorization on behalf of the Applicant, hereby certifies that all information contained in the application and any attachments to the Application, is true and correct to the best of Applicant's knowledge and belief.

Fremont County hereby advises Applicant that if any material information contained herein is determined to be misleading, inaccurate or false, the Board of Commissioners may take any and all reasonable and appropriate steps to declare actions of the Board regarding the Application to be null and void.

Further the applicant understands that if collocation is approved the applicant must comply with the conditions of the original permit, as issued or as may be amended, and applicable regulations of the Fremont County Zoning Resolution.

Signing this Application is a declaration by the Applicant to conform to all plans, drawings, and commitments submitted with or contained within this Application, provided that the same is in conformance with the Fremont County Zoning Resolution.

Scout Carruthers
Applicant Printed Name

Authorized Agent - Crafton Communication
Applicant Title & Company Name

Scout Carruthers
Applicant Signature

12/19/24
Date

Existing Permit Holder's Endorsement:

By signing this Application, the Permit Holder, or the agent/representative acting with due authorization on behalf of the Permit Holder, hereby certifies that all information contained in the application and any attachments to the Application, is true and correct to the best of Permit Holder's knowledge and belief.

Fremont County hereby advises Permit Holder that if any material information contained herein is determined to be misleading, inaccurate or false, the Board of Commissioners may take any and all reasonable and appropriate steps to declare actions of the Board regarding the Application to be null and void.

Further the existing permit holder understands that if collocation is approved the applicant and existing permit holder must comply with the conditions of the original permit, as issued or as may be amended, and applicable regulations of the Fremont County Zoning Resolution.

Signing this Application is a declaration by the Permit Holder to conform to all plans, drawings, and commitments submitted with or contained within this Application, provided that the same is in conformance with the Fremont County Zoning Resolution.

THIS SIGNATURE ALSO SERVES AS THE EXISTING PERMIT HOLDERS APPROVAL FOR COLLOCATION.

Permit Holder Printed Name

Permit Holder Title & Company Name

Permit Holder Signature

Date

RLL

MKT: Rocky Mountain
SITE #: CO-0046
Canon City

COMMUNICATIONS SITE LEASE AGREEMENT (GROUND)

This Lease Agreement ("Agreement") is entered into this 17th day of July, 1997, between Nextel West Corp., a Delaware Corporation, d/b/a Nextel Communications, ("Lessee" or "Nextel"), and City of Canon City, a home rule corporation ("Lessor" or "City").

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

- Premises.** Lessor is the owner of a parcel of land (the "Land") located near the City of Canon City, County of Fremont, State of Colorado, in the northwest ¼, section 25, township 16 south, range 71 west, 6th Principal Meridian. Lessor hereby leases to Lessee and Lessee leases from Lessor approximately two thousand five hundred (2500) square feet of the Land (hereinafter called the "Premises") as described in Exhibit A annexed hereto and subject to the applicable provisions of paragraph 6, grants to Lessee non-exclusive access to the Premises as is necessary and convenient to Lessee's operations for purposes of ingress and egress.
- Use.** The Premises may be used by Lessee for providing radio and wireless telecommunications services which Nextel is legally licensed to provide. Nextel shall not use the Premises for any other purposes without the written consent of Lessor. Lessor agrees to cooperate with Lessee, at Lessee's expense, in making application for and obtaining all licenses, permits and any and all other necessary approvals that may be required for Lessee's intended use of the Premises.
- Tests and Construction.** Lessee shall have the right at any time following the full execution of this Agreement to enter upon the Land for the purpose of making appropriate engineering and boundary surveys, inspections, soil test borings, other reasonably necessary tests and constructing the Lessee Facilities (as defined in Paragraph 6(a) below).
- Term.** The term of this Agreement shall be five (5) years commencing on August 1, 1997 (Commencement Date) and terminating on the fifth anniversary of the Commencement Date (the "Term") unless otherwise terminated as provided in Paragraph 10. Lessee shall have the right to extend the Term for one (1) five (5) year period (the "Renewal Terms") on the same terms and conditions as set forth herein except that rent for the Renewal Term shall be \$ [REDACTED], payable in advance in five equal annual installments of \$ [REDACTED] each on the first day of the Renewal Term and on each anniversary date thereafter. This Agreement shall automatically be extended for the Renewal Term unless Lessee notifies Lessor of its intention not to renew no later than one hundred eighty (180) days prior to the end of the original term.
- Rent.** Rent for the original term shall be \$ [REDACTED] payable in advance in five (5) equal installments of \$ [REDACTED] each beginning on the Commencement Date and on each anniversary of such Commencement (Anniversary Date) thereafter. Rent shall be payable to Lessor at City of Canon City, P.O. Box 1460, Canon City, CO 81215-1460; Attention: City Administrator.

6. Facilities; Utilities; Access.

(a) Lessee has the right to erect, maintain and operate on the Premises the following radio communications facilities: a 100 foot self supporting tower and foundation, utility lines, transmission lines, air conditioned equipment shelter(s), electronic equipment, radio transmitting and receiving antennas, supporting equipment and structures thereto ("Lessee Facilities"). The self supporting tower shall be designed and constructed to accommodate twelve (12) panel or whip antennas and their associated transmission lines. In connection therewith, Lessee has the right to do all work necessary to prepare, maintain and alter the Premises for Lessee's business operations and to install transmission lines connecting the antennas to the transmitters and receivers; provided that Lessor's approval of Lessee's plans and specifications for such Lessee Facilities shall be required prior to the erection and/or construction of such Lessee Facilities. All of Lessee's construction and installation work shall be performed at Lessee's sole cost and expense and in a good and workmanlike manner. Title to the Lessee Facilities shall be held by Lessee. All of Lessee Facilities shall remain Lessee's personal property and are not fixtures. Lessee has the right to remove all Lessee Facilities at its sole expense on or before the expiration or earlier termination of this Lease Agreement; provided, that Lessee shall promptly repair any and all damage to the Premises caused by such removal. Upon termination of this Agreement, Lessee shall not be required to remove any foundation more than one (1) foot below grade level.

(b) Lessee shall pay for the electricity it consumes in its operations at the rate charged by the servicing utility company. Lessee shall have the right to draw electricity and other utilities from the existing utilities on the Land or obtain separate utility service from any utility company that will provide service to the Land (including a standby power generator for Lessee's exclusive use). Lessor agrees to sign such documents as may be required by said utility companies to provide such service to the Premises, including the grant to the servicing utility company, of an easement in, over across or through the Land as might reasonably be required by such servicing utility company to provide utility services as provided herein. Any easement necessary for such power or other utilities will be at a location acceptable to Lessor and the servicing utility company. Notwithstanding any of the foregoing, no costs of bringing electricity to the Premises and no electricity costs incurred by Lessee shall be borne by Lessor or charged to Lessor's account.

(c) Lessee, Lessee's employees, agents, subcontractors, lenders and invitees shall have access to the Premises without notice to Lessor twenty-four (24) hours a day, seven (7) days a week, at no charge. Lessor grants to Lessee, and its agents, employees, contractors, guests and invitees, a non-exclusive right and easement for pedestrian and vehicular ingress and egress across property owned by Lessor over the route and roadway generally depicted in Exhibit B attached hereto and incorporated herein.

(d) Notwithstanding the grant of access made hereinabove, Lessor does not warrant the condition or suitability of the access route generally depicted in Exhibit B. If Lessee determines that said access route is in need of maintenance or repair, Lessee understands and acknowledges that Lessor is not obligated by this Communications Site Lease Agreement to perform such maintenance or repair or to reimburse Lessee (or any other person) for the performance of any maintenance or repair work done to the said access route or any portion of it. Lessee shall have the right, but not the obligation, to perform such maintenance or repair work on the road as Lessee deems necessary or important for Lessee's purposes hereunder. Lessor shall not be liable to Lessee, or to Lessee's employees, agents, guests or invitees with respect to any injuries to persons

or property incurred during or in connection with their use of the access route. Lessee shall hold harmless and indemnify Lessor with respect to any and all claims arising from the use of the access route by Lessee or by Lessee's employees, agents, guests and invitees.

7. Interference.

(a) Lessee shall operate the Lessee Facilities in a manner that will not cause interference to Lessor and other lessors or licensees of the Land, provided that their installations predate construction and operation of the Lessee Facilities. All operations by Lessee shall be in compliance with all Federal Communications Commission ("FCC") requirements.

(b) Nextel, at no cost to Lessor, shall prepare a frequency study prior to the installation of any other party requesting to locate at the communication site on the Land, thereby ensuring to the satisfaction of the Lessor and Nextel that any future tenant will not cause interference to Lessor, Nextel or any other current tenants. Any interference caused by Nextel to current tenants shall be eliminated in a timely manner, not to exceed forty-eight hours, upon written notification from Lessor, provided that there is access to the site, but in any event not later than seventy-two hours from notification.

(b) For purposes of this Agreement "current tenant" shall mean any tenant or permittee of Lessor that currently has facilities on the Land pursuant to a lease with or a permit granted by Lessor and any law enforcement agency whose radio equipment is used or capable of being used by the Canon City Police Department pursuant to agreements between the Lessor and such other law enforcement agency.

(d) Lessor agrees to use its best efforts to eliminate, without cost to Lessee and in a timely manner, not to exceed forty-eight hours, any interference to Lessee's operation which results from the subsequent installation of equipment by any future tenant on the Land. If such interference cannot be eliminated within a reasonable length of time, not to exceed seventy-two hours, Lessor shall require the party causing the interference to cease using the equipment which is causing the interference except for short tests necessary for the elimination of the interference. Notwithstanding the foregoing, Lessee's sole remedy for breach of this provision by the Lessor shall be to terminate this Lease and to receive back any unused portion of any annual rental installment previously paid, prorated on a monthly basis for the portion of the lease year following Lessee's termination and vacation of the site. Lessor shall include in its agreements with future tenants, if any, provisions identifying Lessee's rights and Lessor's obligations under this paragraph and reserving to Lessor enforcement authority sufficient to enable Lessor to eliminate interference to Lessee caused by the equipment of any such future tenant.

8. Taxes. If personal property taxes are assessed, Lessee shall pay when due any portion of such taxes directly attributable to the Lessee Facilities. Lessor shall also pay when due all real property taxes, if any assessed, with respect to the Lessee Facilities erected on the Premises.

9. Waiver of Lessor's Lien.

(a) Lessor waives any lien rights it may have concerning the Lessee Facilities which are deemed Lessee's personal property and not fixtures, and Lessee has the right to remove the same at any time without Lessor's consent.

(b) Lessor acknowledges that Lessee has entered into a financing arrangement including promissory notes and financial and security agreements for the financing of the Lessee Facilities (the "Collateral") with a third party financing entity (and may in the future enter into additional financing arrangements with other financing entities). In connection therewith, Lessor (i) consents to the installation of the Collateral; (ii) disclaims any interest in the Collateral, as fixtures or otherwise; and (iii) agrees that the Collateral shall be exempt from execution, foreclosure, sale, levy, attachment, or distress for any Rent due or to become due and that such Collateral may be removed at any time without recourse to legal proceedings.

(c) Nextel may at any time, including any time it vacates the Premises and ceases paying rent, remove Nextel's improvements, equipment and all of Nextel's personal property from the premises. Nextel guarantees that within ninety days from the termination date of this Communications Site Lease Agreement, all equipment Nextel has an interest in will have been removed from the Premises. Any equipment remaining subsequent to the ninety days will become the property of the Lessor.

10. Termination.

(a) **Termination for Cause.** Nextel may terminate this lease for cause upon the giving of thirty day's written notice to Lessor if any of the following events occur: (i) if Nextel elects to terminate due to damage or destruction of the Premises and surrenders the premises; (ii) if Lessor fails to comply with any term, condition or covenant of this lease and does not cure such failure within thirty days after receiving written notice from Nextel thereof or in the event of a cure which requires in excess of thirty days to complete, if Lessor has not commenced such cure within thirty days of such notice and is not diligently prosecuting such cure to completion, Nextel shall have the right to cure any default by Lessor following such notice and cure period. If this Lease is terminated pursuant to this subparagraph, Lessor shall reimburse to Nextel any portion of prepaid rental installments covering the period which begins thirty days after delivery of Nextel's notice of default and election to terminate, provided that no such reimbursement shall be required if Nextel fails to surrender the premises, or (iii) if Nextel determines at any time that the property is not appropriate for location of Nextel's communication equipment for technological reasons, including but not limited to signal interference and tendering to Lessor a termination fee equal to six months of the contract rental rate.

(b) **Termination without Cause.** Nextel may terminate this lease without cause by tendering to Lessor a written notice of its intention to terminate and a termination fee of six months rent. Termination pursuant to this paragraph shall be effective thirty days following the date of the tender of the termination notice and termination fee but shall be effective only if the Premises are surrendered as provided. If termination occurs pursuant to the terms of this subparagraph, Lessor shall, in addition to the termination fee, retain all rental installments paid prior to termination and shall be entitled to collect from Nextel any unpaid rental installments that came due prior to the date of the tender of the termination fee.

11. **Destruction or Condemnation.** If the Premises or Lessee Facilities are damaged, destroyed, condemned or transferred in lieu of condemnation, Lessee may elect to terminate this Agreement as of the date of the damage, destruction, condemnation or transfer in lieu of condemnation by giving notice to Lessor no more than forty-five (45) days following the date of such damage, destruction, condemnation or transfer in lieu of condemnation. If Lessee chooses not to terminate this Agreement, Rent shall be reduced or abated in proportion to the actual reduction or abatement of use of the Premises.
12. **Insurance.** Lessee, at Lessee's sole cost and expense, shall procure and maintain on the Premises and on the Lessee Facilities, bodily injury and property damage insurance with a combined single limit of at least [REDACTED] per occurrence. Such insurance shall insure, on an occurrence basis, against all liability of Lessee, its employees and agents arising out of or in connection with Lessee's use of the Premises, all as provided for herein. Lessor shall be named as an additional insured on Lessee's policy. Lessee shall provide to Lessor a certificate of insurance evidencing the coverage required by this paragraph within thirty (30) days of the Commencement Date.
13. **Waiver of Subrogation.** Lessor and Lessee release each other and their respective principals, employees, representatives and agents, from any claims for damage to any person or to the Premises or to the Lessee Facilities thereon caused by, or that result from, risks insured against under any insurance policies carried by the parties and in force at the time of any such damage. Lessor and Lessee shall cause each insurance policy obtained by them to provide that the insurance company waives all right of recovery by way of subrogation against the other in connection with any damage covered by any policy. Neither Lessor nor Lessee shall be liable to the other for any damage caused by fire or any of the risks insured against under any insurance policy required by Paragraph 12.
14. **Hold Harmless and Indemnification.** To the fullest extent permitted by applicable law, Lessee shall hold harmless and indemnify Lessor from and against all expenses, liabilities, and claims of every kind and character, including reasonable attorney fees and court costs, incurred, raised or brought by or on behalf of any person or entity arising out of either: (1) a failure by Lessee to perform any of the terms or conditions of this Lease, (2) any injury or damage happening on or about the Premises, except for injury or damage caused solely by the gross negligence of Lessor, (3) Lessee's failure to comply with any law of any governmental authority, or (4) any mechanic's lien pertaining to work, services or materials contracted for by Lessee or security interest filed against the Premises or equipment, materials or alterations of buildings or improvements thereon which pertains to any indebtedness incurred by Lessee.
15. **Assignment and Subletting.** Lessee may not assign, or otherwise transfer all or any part of its interest in this Agreement or in the Premises without the prior written consent of Lessor; provided, however, that Lessee may assign its interest to its parent company, any subsidiary or affiliate or to any successor-in-interest or entity acquiring [REDACTED] or more of its stock or assets, subject to any financing entity's interest, if any, in this Agreement as set forth in Paragraph 9 above. Lessor may assign this Agreement upon written notice to Lessee, subject to the assignee assuming all of Lessor's obligations herein, including but not limited to, those set forth in Paragraph 9 above, and Lessee may not sublet or license all or any portion of the Premises to one or more entities for communications uses only, without Lessor's prior written consent, which consent shall not unreasonably be withheld. Notwithstanding anything to the contrary contained in this Agreement, Lessee may assign, mortgage, pledge, hypothecate or otherwise transfer without consent its interest in this Agreement to any financing entity, or agent on behalf of any financing entity to whom Lessee (i) has obligations for borrowed money

or in respect of guaranties thereof, (ii) has obligations evidenced by bonds, debentures, notes or similar instruments, or (iii) has obligations under or with respect to letters of credit, bankers acceptances and similar facilities or in respect of guaranties thereof.

16. **Warranty of Title and Quiet Enjoyment.** Lessor warrants that: (i) Lessor owns the Land in fee simple and has rights of access thereto and the Land is free and clear of all liens, encumbrances and restrictions; (ii) Lessor has full right to make and perform this Agreement; and (iii) Lessor covenants and agrees with Lessee that upon Lessee paying the Rent and observing and performing all the terms, covenants and conditions on Lessee's part to be observed and performed, Lessee may peacefully and quietly enjoy the Premises. Lessor agrees to indemnify and hold harmless Lessee from any and all claims on Lessee's leasehold interest.

17. **Repairs.** Lessee shall not be required to make any repairs to the Premises or Land unless such repairs shall be necessitated by reason of the default or neglect of Lessee. Except as set forth in Paragraph 6(a) above, upon expiration or termination hereof, Lessee shall restore the Premises to the condition in which it existed upon execution hereof, reasonable wear and tear and loss by casualty or other causes beyond Lessee's control excepted.

18. **Hazardous Substances.** Lessee agrees that it will not use, generate, store or dispose of any Hazardous Material on, under, about or within the Land in violation of any law or regulation. Lessor represents, warrants and agrees (1) that neither Lessor nor, to Lessor's knowledge, any third party has used, generated, stored or disposed of, or permitted the use, generation, storage or disposal of, any Hazardous Material (defined below) on, under, about or within the Land in violation of any law or regulation, and (2) that Lessor will not, and will not permit any third party to use, generate, store or dispose of any Hazardous Material on, under, about or within the Land in violation of any law or regulation. Lessor and Lessee each agree to defend, indemnify and hold harmless the other and the other's partners, affiliates, agents and employees against any and all losses, liabilities, claims and/or costs (including reasonable attorney's fees and costs) arising from any breach of any representation, warranty or agreement contained in this paragraph. As used in this paragraph, "Hazardous Material" shall mean petroleum or any petroleum product, asbestos, any substance known by the state in which the Land is located to cause cancer and/or reproductive toxicity, and/or any substance, chemical or waste that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. This paragraph shall survive the termination of this Agreement.

19. **Joint Use of Tower.** In the event other parties wish to co-locate on Lessee's tower during the term of this Lease Agreement, Lessee agrees that it will authorize such co-location for a reasonable rent, subject to the applicable provisions of paragraph 7 hereof and also subject to Lessor's prior approval. Lessor will be entitled to [REDACTED] of the rent for any ground space and [REDACTED] of any rental revenue from such tower co-use.

20. **Miscellaneous.**

(a) This Agreement constitutes the entire agreement and understanding between the parties, and supersedes all offers, negotiations and other agreements concerning the subject matter contained herein. Any amendments to this Agreement must be in writing and executed by both parties.

(b) If any provision of this Agreement is invalid or unenforceable with respect to any party, the remainder of this Agreement or the application of such provision to persons other than those as to whom it is held invalid or unenforceable, shall not be affected and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

(c) This Agreement shall be binding on and inure to the benefit of the successors and permitted assignees of the respective parties.

(d) Any notice or demand required to be given herein shall be made by certified or registered mail, return receipt requested, or reliable overnight courier to the address of the respective parties set forth below:

Lessor: <u>Steve Thacker</u>	Lessee: Nextel Communications
<u>City Administrator</u>	4643 S. Ulster, Suite 500
<u>City of Canon City</u>	Denver, CO 80237
<u>P. O. Box 1460</u>	Attention: Property Administrator
<u>Canon City, CO 81215-1460</u>	

With a copy to: Nextel Communications, Inc.
1505 Farm Credit Drive
McLean, VA 22102
Attn.: Legal Dept., Contracts
Manager

Lessor or Lessee may from time to time designate any other address for this purpose by written notice to the other party. All notices hereunder shall be deemed received upon actual receipt.

(e) This Agreement shall be governed by the laws of the State of Colorado.

(f) Lessor acknowledges that a Memorandum of Agreement in the form annexed hereto as Exhibit C will be recorded by Lessee in the official records of the County where the Land is located. In the event the Land is encumbered by a mortgage or deed of trust, Lessor agrees to obtain and furnish to Lessee a non-disturbance and attornment instrument for each such mortgage or deed of trust.

(g) Lessee may obtain title insurance on its interest in the Land. Lessor shall cooperate by executing documentation required by the title insurance company.

(h) In any case where the approval or consent of one party hereto is required, requested or otherwise to be given under this Agreement, such party shall not unreasonably delay or withhold its approval or consent.

(i) All Riders and Exhibits annexed hereto form material parts of this Agreement.

(j) This Agreement may be executed in duplicate counterparts, each of which shall be deemed an original.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

MKT: Rocky Mountain
SITE # CO-0046

LESSOR

The City of Canon City

By: Steve H. Thacker

Printed Name: Steve H. Thacker

Title: City Administrator

Date: July 21, 1997

Tax ID#: [REDACTED]

LESSEE

Nextel West Corp., a Delaware
corporation, d/b/a Nextel Communications

By: Mark Dreher

Printed Name: Mark Dreher

Title: Rocky Mountain Area President

Date: July 17, 1997

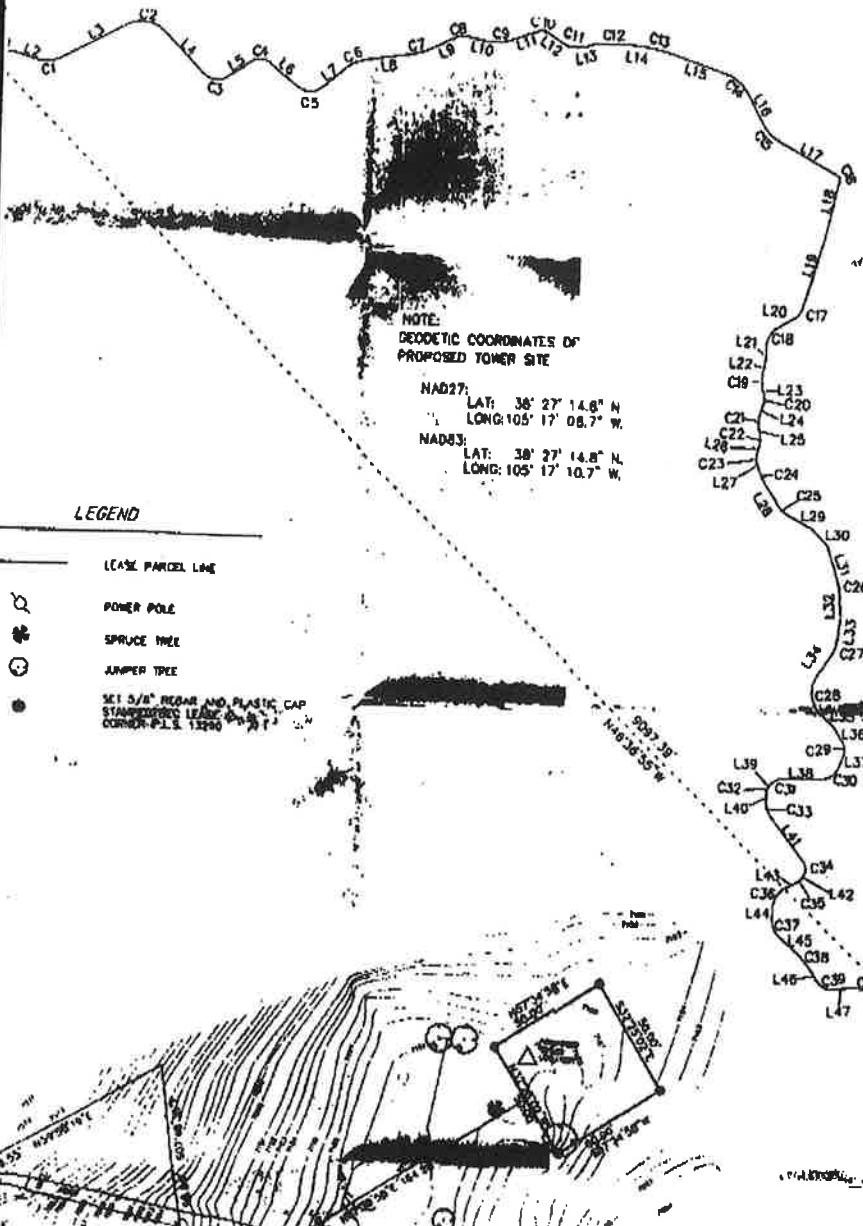
EXHIBIT A

DESCRIPTION OF LAND

to the Agreement dated July 17, 1997, by and between the City of Canon City, as Lessor, and Nextel West Corp., as Lessee.

The Land is described and/or depicted as follows (metes and bounds description):

TO BE INSERTED



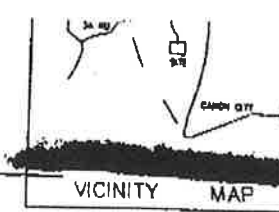
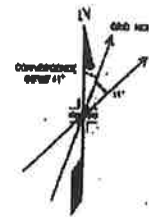
NOTE:
 GEODETIC COORDINATES OF
 PROPOSED TOWER SITE

NAD27:
 LAT: 38° 27' 14.8" N
 LONG: 105° 17' 08.7" W

NAD83:
 LAT: 38° 27' 14.8" N
 LONG: 105° 17' 10.7" W

LEGEND

- LEASE PARCEL LINE
- ⊙ POWER POLE
- ⊙ SPRUCE TREE
- ⊙ JUNPER TREE
- SET 5/8" REBAR AND PLASTIC CAP STAMPED: 105° 17' 08.7" W 38° 27' 14.8" N CORNER P.L.S. 13290



300' 0 300' 600'
 SCALE 1" = 300' FEET

THIS MAP COMPLIES WITH NATIONAL MAPPING STANDARDS.

BASIS OF BEARING: N.G.S. POINT "ROYAL", NAD 83(1992)

BASIS OF ELEVATION: N.G.S. POINT "ROYAL" NAVD 1988 ELEVATION = 2200.3 METERS

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY BRENT ENGINEERING CO., INC. FOR EASEMENTS, RIGHTS-OF-WAY, OR OTHER INTERESTS. BRENT ENGINEERING CO., INC. RELIES UPON OTHERS.

NOTICE: ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

LEASE PARCE

**FIRST AMENDMENT TO
COMMUNICATIONS SITE LEASE AGREEMENT**

THIS FIRST AMENDMENT COMMUNICATIONS SITE LEASE AGREEMENT ("First Amendment") is entered into on the 28th day of December, 2006, by and between **City of Canon City** (hereinafter referred to as "Lessor") and **Tower Asset Sub, LLC** a Delaware limited liability company, its successors and/or assigns (hereinafter referred to as "Lessee").

WITNESSETH:

WHEREAS, Lessor and Nextel West Corp., a Delaware corporation, predecessor-in-interest to Lessee, executed and entered into that certain Communications Site Lease Agreement (Ground) dated July 17, 1997 (the "Lease"), for the purpose of installing, operating and maintaining a communications facility and other improvements on the Site (as described in Exhibit A attached hereto and incorporated by reference herein); and

WHEREAS, Lessor and Lessee desire to amend certain provisions in the Lease.

NOW, THEREFORE, in consideration of the mutual covenants and promises contained in this First Amendment, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the parties, Lessor and Lessee hereby agree and contract as follows:

1. At every place in the Lease where the name "Nextel" is used, such name shall be amended to read "Lessee".
2. Paragraphs 4 and 5 are hereby deleted in their entirety and replaced with the following: "Lease Term and Rental. The Lease was for an Initial Term of five (5) years commencing August 1, 1997 and expiring on July 31, 2002. The Lease was subsequently extended for an additional five (5) year term ending on July 31, 2007. Lessee shall have the irrevocable right and option to renew this term for each of three (3) additional five (5) year renewal terms (each, a "Renewal Term"). Each Renewal Term shall be automatically exercised by Lessee unless Lessee provides Lessor with written notice of its intent not to renew the Lease. Commencing August 1, 2007, the rent paid to Lessor shall be increased to [REDACTED] Commencing August 1, 2008, and every August 1st thereafter the rental amount paid to Lessor shall be increased by [REDACTED] annually." Lessor and Lessee hereby acknowledge that the current rental rate paid to Lessor as of the date of this First Amendment is [REDACTED] annually and shall remain at that rate thru July 31, 2007. Lessor and Lessee hereby affirm and ratify the provisions contained in Paragraph 19 of the Lease.
3. Paragraph 20(d) is hereby deleted in its entirety and replaced with the following: "Notices. All notices must be in writing and shall be valid upon receipt when delivered by hand, by nationally recognized courier service, signed receipt requested, or by First Class United States mail, certified, return receipt requested, addressed as follows:

Lessor: City of Cañon City
P.O. Box 1460
Cañon City, CO 81215-1460
Attn: City Administrator

Lessee: American Tower
10 Presidential Way
Woburn, MA 01801
Attn: Land Management

With a copy to: American Tower
116 Huntington Ave.
Boston, MA 02116
Attn: Legal

The parties may substitute recipient's names and addresses by giving at least thirty (30) days notice. Rejection or refusal to accept delivery of any notice, or the inability to deliver any notice because of a changed address of which no notice was given, shall be deemed to be receipt of any such notice."

4. Lessor grants to Lessee the right to install and maintain during the Term of this Lease identifying signs or other types of signs required by any governmental authority on or along any access road to the Site, including, if necessary, signs visible from the nearest public street, at locations where an access road diverges, or if an obstruction obscures visibility of the Site and Improvements. Lessee agrees to minimize the size of such signs as reasonably required for readability and compliance with regulations or directives of any governmental authority.
5. Lessor agrees to cooperate with Lessee as necessary to obtain appropriate zoning, permitting and government approvals.
6. Paragraph 10(b) shall be amended to read as follows:
 - b. Termination without Cause. Lessee may terminate this Lease without cause by tendering to Lessor a written notice of its intention to terminate and a termination fee equal to the amount of annual rent that otherwise would come due on the first anniversary date hereof following the date the termination notice and termination fee are received by Lessor, unless termination results from an Act of God or government approvals prohibiting our continued use of the site. Termination pursuant to this paragraph shall be effective thirty days following the date of Lessor's receipt of the termination notice and termination fee, but shall be effective only if the Premises are surrendered as provided. If termination occurs pursuant to the terms of this subparagraph, Lessor shall, in addition to the termination fee, retain all rental installments paid prior to termination and shall be entitled to collect from Lessee any unpaid rental installments that came due prior to the date of the tender of the termination fee.
7. Insurance. Lessee, at Lessee's sole cost and expense, shall procure and maintain on the Premises and on the Lessee Facilities, bodily injury and property damage insurance with a combined single

limit of at least [REDACTED] per occurrence. Such insurance shall insure, on an occurrence basis, against all liability of Lessee, its employees and agents arising out of or in connection with Lessee's use of the Premises, all as provided for herein. Lessor shall be named as an additional insured on Lessee's policy. Lessee shall provide Lessor a certificate of insurance evidencing the coverage required by this paragraph upon request by Lessor.

8. ^{56R} Lessor represents and warrants that as of the date of this execution, there are no uncured defaults under the terms of the Lease and that the Lease is in full force and effect.

9. ^{56R} All other terms of the Lease except as may be amended herein, or as may be in conflict with the provisions of this First Amendment, shall be deemed incorporated into this First Amendment.

10. ^{56R} ~~Add new paragraph 8 to read as follows:~~ ^{56R} Within thirty (30) days following the execution of this First Amendment, Lessee shall furnish to Lessor true and correct copies of all existing agreements between Lessee and third parties who are co-located on Lessee's tower as of the date of such execution. Thereafter, and within thirty (30) days following the execution thereof, Lessee shall furnish to Lessor: (a) true and correct copies of each and every new agreement executed by a third party wishing to co-locate on Lessee's tower; and (b) copies of all amendments to any co-location agreement between Lessee and any co-locator. Lessee shall also inform Lessor with respect to the expiration or other termination or assignment of any agreement between Lessee and any co-locator.

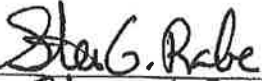
11. ^{56R} Except as amended herein, all terms, conditions, provisions, covenants and agreements contained in the Lease are hereby ratified and confirmed in their entirety. The terms used herein and not otherwise defined in this First Amendment shall have the same meaning as set forth in the Lease.

[SIGNATURES NEXT PAGE]


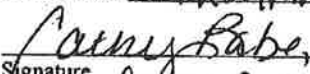
IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day first above written.

LESSOR:

City of Canon City


By: Steven G. Rabe
Its: City Administrator

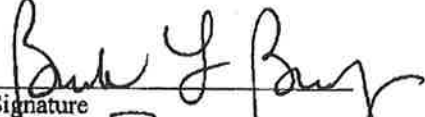
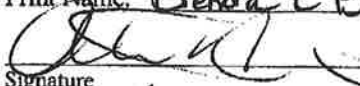
WITNESSES:


Signature
Print Name: John D. Havens

Signature
Print Name: Cathy Rabe

LESSEE:

Tower Asset Sub, LLC
a Delaware limited liability company


Jason B. Hirsch
Director, Land Management


Signature
Print Name: Brenda L. Berry

Signature
Print Name: ATIL TOKKAN

ACKNOWLEDGEMENT

LESSOR:

State of Colorado

County of Fremont

The foregoing instrument was acknowledged before me this 28th day of Dec, 2007 (date) by Steven G. Rabe (name of officer or agent, title of officer or agent) of City of Canon City (name of corporation acknowledging) a Colorado (state or place of incorporation, corporation, on behalf of the corporation).

Cheyl A. Havens

Notary Public

My commission expires:

5/4/2010

LESSEE:

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this the 27 day of Dec 2006, before me, VARTAN KAZANDJIAN, the undersigned Notary Public, personally appeared Jason D. Hirsch, proved to me through satisfactory evidence of identity, in which she is personally known to me, to be the person whose name is signed on the preceding document, and acknowledged to me that she signed it voluntarily for its stated purpose as Director Land Management, of Tower Asset Sub, LLC on behalf of the limited liability company.

Vartan Kazandjian

Print Name:
Notary Public
Commonwealth of Massachusetts
Commission Expires 5/14/2011

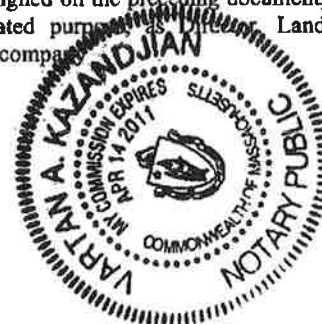


EXHIBIT A

PARENT PARCEL LEGAL DESCRIPTION:

A tract of land situated Sections 21 through 28, Township 18 South, Range 71 West of the 8th P.M.

LEASE AREA LEGAL DESCRIPTION (AS SURVEYED):

A parcel of land situated in Section 23, Township 18 South, Range 71 West of the Sixth Principal Meridian, County of Fremont, State of Colorado, said parcel of land being located within the boundaries of United States Land Patent Number 18048, granted to the City of Canon City, County of Fremont, State of Colorado, said parcel of land being more particularly described as follows:

Beginning at a point whence the U.S.C.E. triangulation station "Hayd" bears S 28°08'30" E a distance of 2,134.71 feet, thence N 32°28'02" W a distance of 50.00 feet, thence S 37°34'58" E, a distance of 50.00 feet; thence S 37°25'02" E, a distance of 50.00 feet; thence S 87°34'58" W a distance of 50.00 feet to the true point of beginning.

Containing in all 2,500.00 square feet, of 0.057 acres, more or less.

ACCESS/UTILITY EASEMENT LEGAL DESCRIPTION (AS SURVEYED):

An Access/Utility easement 30 feet in width located in that part of the S 1/2, NW 1/4 of Section 23, Township 18 South, Range 71 West of the 8th P.M., the centerline being described as follows:

Commencing at the southern most corner of the described Lease Site, thence easterly, N 33°44'43" W, 8.32 feet to the point of beginning for the centerline of the described easement, thence S 37°42'28" W, 82.62 feet, thence S 88°13'27" W, 20.82 feet, thence N 78°43'58" W, 112.48 feet; thence N 88°13'18" W, 473.32 feet; thence N 74°38'23" W, 148.20 feet; thence N 80°37'50" W, 81.88 feet; thence N 72°34'02" W, 115.82 feet; thence N 87°07'01" W, 28.28 feet; thence S 83°01'21" W, 81.26 feet; thence N 63°28'50" W, 81.78 feet; thence N 81°24'48" W, 88.83 feet; thence N 82°20'05" W, 29.43 feet; thence S 88°57'32" W, 73.93 feet; thence N 64°57'38" W, 41.26 feet; thence N 38°18'32" W, 27.52 feet; thence N 22°41'41" W, 118.08 feet; thence N 38°18'13" W, 88.47 feet; thence N 84°14'38" W, 82.02 feet; thence N 82°08'28" W, 122.89 feet; thence N 80°33'50" W, 48.04 feet; thence N 77°08'44" W, 83.87 feet; thence N 68°38'43" W, 70.18 feet; thence N 87°28'37" W, 78.45 feet; thence N 81°33'32" W, 84.23 feet; thence N 38°18'30" W, 131.28 feet; thence N 70°28'38" W, 48.38 feet; thence N 88°35'38" W, 84.70 feet; thence S 87°01'08" W, 82.88 feet; thence N 84°03'54" W, 31.00 feet; thence N 38°27'11" W, 105.01 feet; thence N 48°20'33" W, 163.51 feet; thence N 33°47'36" W, 28.88 feet; thence N 04°03'13" W, 71.37 feet; thence N 12°58'47" E, 48.28 feet; thence N 37°24'08" E, 43.08 feet; thence N 84°70'47" E, 80.48 feet; thence N 41°32'08" E, 28.08 feet; thence N 11°08'28" E, 30.15 feet; thence N 20°00'48" W, 33.35 feet; thence N 37°18'13" E, 241.88 feet; thence N 15°38'43" W, 54.88 feet; thence N 10°47'15" E, 43.00 feet; thence N 38°18'14" E, 33.53 feet; thence N 47°48'40" E, 29.82 feet; thence N 82°16'08" E, 48.83 feet; thence N 88°32'31" E, 143.44 feet; thence N 85°08'48" E, 38.73 feet; thence N 38°05'24" E, 30.08 feet; thence N 14°38'41" E, 87.83 feet; thence N 28°53'18" W, 81.85 feet; thence N 40°55'41" W, 71.87 feet; thence N 43°45'40" W, 72.75 feet; thence N 18°41'08" W, 38.28 feet; thence N 82°48'38" E, 37.80 feet; thence N 22°48'18" E, 53.81 feet; thence N 35°18'52" E, 110.87 feet; thence N 18°40'03" E, 44.48 feet; thence N 08°28'48" E, 114.80 feet; thence N 08°34'45" W, 143.88 feet; thence N 12°31'51" W, 81.87 feet; thence N 28°28'55" W, 88.18 feet; thence N 55°16'18" W, 100.48 feet; thence N 81°27'55" W, 81.83 feet; thence N 43°01'47" W, 52.35 feet; thence N 31°28'52" W, 128.52 feet; thence N 27°01'10" W, 89.80 feet; thence N 11°08'48" E, 68.79 feet; thence N 03°10'32" E, 28.48 feet; thence N 13°02'28" W, 88.48 feet; thence N 18°44'41" E, 71.00 feet; thence N 00°48'18" W, 48.82 feet; thence N 17°27'48" W, 52.35 feet; thence N 02°41'11" E, 78.11 feet; thence N 02°12'54" E, 81.07 feet; thence N 28°18'19" E, 80.08 feet; thence N 89°03'24" E, 87.28 feet; thence N 80°13'28" E, 53.87 feet; thence N 34°58'35" E, 42.50 feet; thence N 18°39'44" E, 351.88 feet; thence N 08°25'30" E, 143.88 feet; thence N 47°07'31" W, 37.22 feet; thence N 80°20'20" W, 273.11 feet; thence N 87°18'13" W, 58.88 feet; thence N 33°04'18" W, 38.82 feet; thence N 29°57'07" W, 148.88 feet; thence N 48°24'50" W, 58.88 feet; thence N 88°58'31" W, 70.22 feet; thence N 73°11'08" W, 237.08 feet; thence N 83°48'33" W, 173.33 feet; thence S 83°41'12" W, 188.24 feet; thence N 88°32'37" W, 45.01 feet; thence N 81°37'22" W, 81.83 feet; thence N 81°34'42" W, 42.48 feet; thence N 80°34'41" W, 44.85 feet; thence S 72°32'28" W, 104.27 feet; thence S 88°34'13" W, 82.70 feet; thence N 82°34'34" W, 78.98 feet; thence S 82°38'28" W, 82.83 feet; thence S 88°22'59" W, 148.50 feet; thence S 79°22'48" W, 227.11 feet; thence N 75°08'53" W, 88.43 feet; thence S 80°24'84" W, 114.47 feet; thence S 84°54'10" W, 40.38 feet; thence S 78°22'17" W, 38.78 feet; thence N 75°40'00" W, 42.10 feet; thence N 54°32'08" W, 132.83 feet; thence N 88°48'09" W, 48.42 feet; thence N 85°34'23" W, 45.58 feet; thence S 71°40'37" W, 43.78 feet; thence S 58°12'38" W, 85.22 feet; thence S 82°11'38" W, 47.81 feet; thence N 88°20'33" W, 48.70 feet; thence N 48°01'48" W, 243.43 feet; thence N 84°38'25" W, 48.31 feet; thence N 83°31'48" W, 48.41 feet; thence S 78°04'05" W, 48.15 feet; thence S 84°32'13" W, 318.03 feet; thence S 78°42'02" W, 72.87 feet; thence N 83°28'23" W, 47.83 feet; thence N 72°22'51" W, 88.21 feet; thence N 85°30'48" W, 111.02 feet to a point of intersection on the easterly right-of-way line of C.R. 388B, also being the point of termination for the centerline of the described easement.

31
MAGNETIC DEVIATION

SGR



LETTER OF AUTHORIZATION FOR PERMITTING

Licensee Name: AT&T MOBILITY
@ ATC Site Name: Canon City CO 2 ATC Site #: 302446 Project # 14872928
Site Address: S. 1/2 Of Nw 1/4 Of Section 25 Township 18 North, Range 71 West Of 6th Principal Meridian, CANON CITY, Fremont CO 81212-9763 United States
Site Coordinates: 38.454092, -105.286292
Site Acquisition Vendor (Applicant Representative): CRAFTON COMMUNICATIONS INC

I, Margaret Robinson, Vice President, UST Legal for American Tower*, owner/operator of the tower facility located at the address identified above (the "Tower Facility"), do hereby authorize **AT&T MOBILITY, CRAFTON COMMUNICATIONS INC**, their successors and assigns, and/or their agent, (collectively, the "Licensee") to act as American Tower's non-exclusive agent for the sole purpose of filing and consummating any land-use, building, or electrical permit application(s) as may be required by the applicable permitting authorities for **AT&T MOBILITY's** telecommunications' installation on the Tower Facility.

I understand that these applications may be approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee's installation and any such conditions of approval or modifications will be Licensee's sole responsibility.

Signature:

Print Name: Margaret Robinson
Vice President, UST Legal
American Tower*

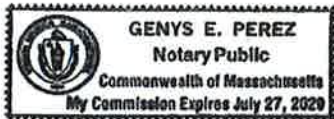
NOTARY BLOCK

Commonwealth of MASSACHUSETTS
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Vice President, UST Legal for American Tower*, personally known to me (or proved to me based on satisfactory evidence of identification) to be the person whose name is signed on the preceding or attached document and acknowledged to me that they signed it voluntarily for its stated purpose.

WITNESS my hand and official seal, this 15th day of November 2024

Notary Seal



Notary Public
Genys E. Perez
My Commission Expires: July 27, 2029

* American Tower is defined as American Tower Corporation and any of its affiliates or subsidiaries.



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 100 ft Self Support Tower
ATC Asset Name : Canon City CO 2
ATC Asset Number : 302446
Engineering Number : 14872928_C3_03
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : CANYON CITY (SPECTRASITE 6)
Carrier Site Number : WSUTH0049882
Site Location : S. 1/2 Of Nw 1/4 Of Section 25 Township 18 North
CANON CITY, CO 81212-9763
38.4541° N, 105.2863° W
County : Fremont
Date : November 12, 2024
Max Usage : 44%
Analysis Result : Pass

Created By:

Pedro Morales Mendoza
Structural Engineer I



Michael
Deese

Digitally signed by
Michael Deese
Date: 2024.11.14
17:54:14 -05'00'



Table of Contents

Introduction3

Supporting Documents3

Analysis3

Conclusion3

Structure Usages4

Maximum Reactions4

Tower Loading5

Standard Conditions Attached

Calculations..... Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 100 ft Self Support tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower:	FWT Design #97-3705A, dated September 19, 1997
Foundation:	FWT Design #97-3705-AA, dated January 5, 1998
Geotechnical:	LD Job #97-3076-P, dated December 1, 1997
Site Specific Study:	ICE Climatic Study, dated April 20, 2021

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	105 mph (3-second gust)
Basic Wind Speed w/ Ice:	66 mph (3-second gust) w/ 0.25" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2018 IBC
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 3
Topographic Category:	2
Crest Height (H):	288 ft
Spectral Response:	$S_s = 0.26$, $S_i = 0.07$
Site Class:	D - Stiff Soil - Default

**Wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-16 Section 26.5.3, IBC Section 1609.3, and TIA-222-H Section 2.6.6.2.3.*

**Ice thickness and wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-16 Section 10.1.1, IBC Section 1614, and TIA-222-H Section 2.6.4.1.*

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.



Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	34.9%	Member X	Section 1	Pass
Diagonal	44.3%	Member Z	Section 3	Pass
Horizontal	4.9%	Block Shear	Section 5	Pass
Bolt	21.6%	-	Section 2	Pass
Serviceability Usage	2.4%	Rotation	Elevation 80 ft	Pass
Foundation	35.0%	Down	Base	Pass
Foundation	38.6%	Shear	Base	Pass
Foundation	32.1%	Uplift	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	1,532.4	32.5	-	27.0
Self Support Base (Local)	-	137.2	113.7	15.8

**Reactions shown are maximum overall and not limited by Load Case*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings, factored by 1.35 per ANSI/TIA-222-H, Section 15.6.2



AT&T MOBILITY Final Loading

Elev (ft)	Qty	Equipment	Lines
87.0	1	Andrew Microwaves VHLPX6-11/A	(1) EWP90
70.0	1	Andrew Microwaves VHLPX6-11/A	(2) EWP90
	1	Andrew UHX8-107	
56.5	3	Ericsson AIR 6472 B77G B77M (92.6lbs)	-
55.0	3	Raycap DC6-48-60-18-8C-EV (Enclosure)	(3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6
54.0	3	Ericsson Radio 4471 B30	(1) 3/8" (0.38"- 9.5mm) RET Control Cable (1) 5/8" Coax (10) 7/8" Coax
	3	Ericsson Radio 4490HP B5 B13	
	3	Ericsson Radio 4494 44B14 20B29 M01	
	3	Ericsson Radio 4890HP 48B2 48B66 S	
	6	Commscope NNH4-65C-R6	
53.0	3	Sector Frame	-
34.0	1	Gabriel QF2-52-N	(1) EWP90

Install proposed lines in the place of the existing AT&T MOBILITY lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
107.6	3	14' Omni	-
98.6	2	96" x 12" Panel	-
95.0	1	Platform with Handrails	-
77.0	1	Andrew VHLP2-11	(2) 0.24" (6mm) Cat 5 (1) 0.26" (6.6mm) Cat 5e (2) 1.46" (37.1mm) Hybrid
	1	DragonWave Horizon Compact Plus	
	1	Fastback Networks Intelligent Backhaul Radio 1300 Series	
	2	Commscope HELIAX FiberFeed 12 RRU Pendant Connect	
	3	Commscope FFVV-65C-R3-V1	
	3	Mount Reinforcement	
	3	Sector Frame	
	3	Nokia AEHC	
	3	Nokia AHFIG	
	3	Nokia AirScale Dual RRU 4T4R B12/71 240W AHLOA	
25.0	1	Andrew Microwaves PAR6-59	(2) 1/2" Coax
	1	Radio/ODU	

(If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

All engineering services performed by ATC Tower Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services LLC

It is the responsibility of the client to ensure that the information provided to ATC Tower Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ASSET: Canon City CO 2, 302446
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928

ANALYSIS PARAMETERS

Design Wind: 105 mph Ice Wind: 66 mph w/ 0.25" ice Service Wind: 60 mph
 Risk Category: II Exposure: C S_s: 0.263 S_i: 0.071
 Topo Factor: Method 3 Topo Feature: Topo Category: 2
 Structure Height: 100 ft Base Elevation: 0 ft Shape: Triangle
 Base Width: 14.00 ft Top Width: 6.00 ft

TOWER SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 3 3/4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
2	SOL 50 ksi 3 3/4" SOLID	SAE 36 ksi 3X3X0.1875	
3	SOL 50 ksi 3 1/2" SOLID	SAE 36 ksi 2.5X2.5X0.1875	
4	SOL 50 ksi 3" SOLID	SAE 36 ksi 2.5X2.5X0.1875	
5	SOL 50 ksi 2 1/2" SOLID	SAE 36 ksi 2X2X0.1875	SAE 36 ksi 2X2X0.1875

SECONDARY BRACING MEMBERS

Section	Sub Diagonal 1	Sub Diagonal 2	Sub Diagonal 3
1	-	-	-

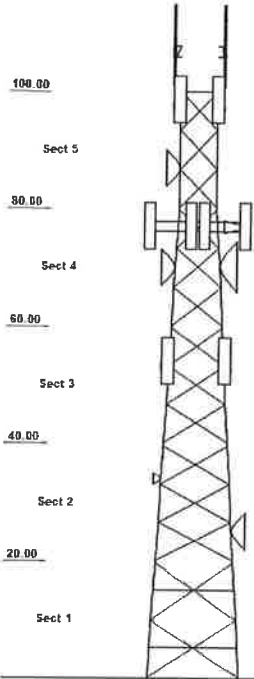
Section	Sub Horizontal 1	Sub Horizontal 2	Sub Horizontal 3
1	S2.5X2.5X0.1875	-	-

DISCRETE APPURTENANCE

LINEAR APPURTENANCE

Elev (ft)	Description	Elev (ft)	Description
107.6	(3) Generic 14' Omni		
98.6	(2) Generic 96" x 12" Panel		
95.0	(1) Generic Flat Platform with Handrails		
87.0	(1) Andrew Microwaves VHLPX6-11/A		
77.0	(2) Commscope HELIAX FiberFeed 12 R		
77.0	(3) Nokia AEHC		
77.0	(1) DragonWave Horizon Compact Plus		
77.0	(3) Generic Round Sector Frame		
77.0	(3) Nokia AirScale Dual RRH 4T4R B12/7		
77.0	(3) Nokia AHFIG		
77.0	(1) Andrew VHLP2-11		
77.0	(3) Generic Mount Reinforcement		
77.0	(1) Fastback Networks Intelligent Backhaul		
77.0	(3) Commscope FFVV-65C-R3-V1		
70.0	(1) Andrew Microwaves VHLPX6-11/A		
70.0	(1) Andrew UHX8-107		
56.5	(3) Ericsson AIR 6472 B77G B77M (92.6)		
55.0	(3) Raycap DC6-48-60-18-8C-EV (Enclos		
54.0	(3) Ericsson Radio 4490HP B5 B13		
54.0	(3) Ericsson Radio 4494 44B14 20B29 M0		
54.0	(6) Commscope NNH4-65C-R6		
54.0	(3) Ericsson Radio 4890HP 48B2 48B66		
54.0	(3) Ericsson Radio 4471 B30		
53.0	(3) Generic Round Sector Frame		
34.0	(1) Gabriel QF2-52-N		
25.0	(1) Andrew Microwaves PAR6-59		
25.0	(1) Generic Radio/ODU		

Quadrant 1 **Tower Elevation View**



GLOBAL BASE REACTIONS

	DL+WL	DL+WL+IL
Moment (k-ft):	1,532.37	699.77
Axial (k):	32.54	39.03
Shear (k):	27.02	12.66

INDIVIDUAL BASE REACTIONS

Comp (k):	137.23
Uplift (k):	113.68
Shear (k):	15.83

ASSFT: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

ANALYSIS PARAMETERS

Location:	Fremont County, CO	Height:	100 ft
Type and Shape:	Self Support, Triangle	Base Elevation:	0.00 ft
Manufacturer:	FWT	Bottom Face Width:	14.00 ft
Kd:	0.85	Top Face Width:	6.00 ft
Ke:	0.77	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS

Exposure Category:	C	Design Wind Speed Without Ice:	105 mph
Risk Category:	II	Design Wind Speed with Ice:	66 mph
Topographic Factor Procedure:	Method 3	Operational Windspeed:	60 mph
Topographic Category:	2	Design Ice Thickness:	0.25 In
Crest Height:	ft	HMSL:	7111 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	0.41
T_L (sec):	6	P:	1.3
S_{ds}:	0.279	S_{d1}:	0.114
S_s:	0.263	S₁:	0.071
F_a:	1.590	F_v:	2.400
		C_s:	0.092
		C_s Max:	0.092
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W Normal	1.2D + 1.0W Normal - 105 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 105 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 105 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 105 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 105 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 105 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 105 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 105 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 105 mph Wind with No Ice
0.9D + 1.0W Normal	0.9D + 1.0W Normal - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 60°	0.9D + 1.0W 60° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 120°	0.9D + 1.0W 120° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 180°	0.9D + 1.0W 180° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 210°	0.9D + 1.0W 210° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 240°	0.9D + 1.0W 240° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 300°	0.9D + 1.0W 300° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 330°	0.9D + 1.0W 330° - 105 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 66 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 66 mph Wind with 0.25" Radial Ice

ASSET: 302446, Canon City CO 2
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: 14872928_C3_03

LOAD CASES

1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 120°	1.2D + 1.0Ev + 1.0Eh 120° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 210°	1.2D + 1.0Ev + 1.0Eh 210° - Seismic
1.2D + 1.0Ev + 1.0Eh 240°	1.2D + 1.0Ev + 1.0Eh 240° - Seismic
1.2D + 1.0Ev + 1.0Eh 300°	1.2D + 1.0Ev + 1.0Eh 300° - Seismic
1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330° - Seismic
0.9D - 1.0Ev + 1.0Eh Normal	0.9D - 1.0Ev + 1.0Eh Normal - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 60°	0.9D - 1.0Ev + 1.0Eh 60° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	0.9D - 1.0Ev + 1.0Eh 90° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 120°	0.9D - 1.0Ev + 1.0Eh 120° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 180°	0.9D - 1.0Ev + 1.0Eh 180° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 210°	0.9D - 1.0Ev + 1.0Eh 210° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 240°	0.9D - 1.0Ev + 1.0Eh 240° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 300°	0.9D - 1.0Ev + 1.0Eh 300° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 330°	0.9D - 1.0Ev + 1.0Eh 330° - Seismic (Reduced DL)
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210° - 60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240° - 60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300° - 60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330° - 60 mph Wind with No Ice

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
107.6	Generic 14' Omni	3	40	4.2	14.0	3.0	3.0	0.75	1.00	0.0	0.00	38.42	309	144
98.6	Generic 96" x 12" Panel	2	45	11.5	8.0	12.0	6.0	0.75	0.76	0.0	0.00	38.36	426	108
95.0	Generic Flat Platform with Han	1	2500	42.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	38.32	1381	3000
87.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.90	1.00	0.0	0.00	38.21	1089	164
77.0	Fastback Networks Intelligent	1	9	0.7	0.9	7.9	3.5	0.80	1.00	0.0	0.00	38.00	17	11
77.0	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	1.00	0.0	0.00	38.00	18	9
77.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.80	0.50	0.0	0.00	38.00	24	48
77.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.80	0.50	0.0	0.00	38.00	86	302
77.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.80	0.50	0.0	0.00	38.00	119	286
77.0	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	0.99	0.0	0.00	38.00	120	32
77.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	38.00	242	720
77.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.80	0.62	0.0	0.00	38.00	329	373
77.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	38.00	785	2520
77.0	Commscope FFVV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	38.00	1031	449
70.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.80	1.00	0.0	0.00	37.79	958	164
70.0	Andrew UHX8-107	1	500	78.0	8.9	106.5	41.7	1.00	0.96	-2.0	4,803.89	37.71	2402	600
56.5	Ericsson AIR 6472 B77G B77M (9	3	93	4.9	3.0	16.1	7.5	0.80	0.65	0.0	0.00	37.18	241	333
55.0	Raycap DC6-48-60-18-8C-EV (Enc	3	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	37.09	136	58
54.0	Ericsson Radio 4471 B30	3	29	1.2	1.2	10.3	5.1	0.80	0.50	0.0	0.00	37.03	46	103
54.0	Ericsson Radio 4490HP B5 B13	3	68	2.2	1.5	15.1	6.8	0.80	0.67	0.0	0.00	37.03	111	245
54.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	37.03	111	206
54.0	Ericsson Radio 4890HP 48B2 48B	3	70	2.2	1.5	15.2	7.0	0.80	0.67	0.0	0.00	37.03	112	250
54.0	Commscope NNH4-65C-R6	6	111	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	37.03	1651	796
53.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	36.96	682	2520
34.0	Gabriel QF2-52-N	1	20	5.2	2.0	24.0	0.0	0.90	1.00	0.0	0.00	35.16	141	24
25.0	Generic Radio/ODU	1	30	1.6	1.3	12.0	8.0	1.00	1.00	0.0	0.00	33.67	46	36
25.0	Andrew Microwaves PAR6-59	1	134	52.8	6.4	76.3	13.2	1.00	0.92	0.0	0.00	33.67	1391	161
Totals		62	11,385	647.9									14,005	13,662

Discrete Appurtenance Properties for LC: 0.9D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
107.6	Generic 14' Omni	3	40	4.2	14.0	3.0	3.0	0.75	1.00	0.0	0.00	38.42	309	108
98.6	Generic 96" x 12" Panel	2	45	11.5	8.0	12.0	6.0	0.75	0.76	0.0	0.00	38.36	426	81
95.0	Generic Flat Platform with Han	1	2500	42.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	38.32	1381	2250
87.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.90	1.00	0.0	0.00	38.21	1089	123
77.0	Fastback Networks Intelligent	1	9	0.7	0.9	7.9	3.5	0.80	1.00	0.0	0.00	38.00	17	8
77.0	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	1.00	0.0	0.00	38.00	18	7
77.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.80	0.50	0.0	0.00	38.00	24	36
77.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.80	0.50	0.0	0.00	38.00	86	226
77.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.80	0.50	0.0	0.00	38.00	119	214
77.0	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	0.99	0.0	0.00	38.00	120	24
77.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	38.00	242	540
77.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.80	0.62	0.0	0.00	38.00	329	280
77.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	38.00	785	1890
77.0	Commscope FFVV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	38.00	1031	336
70.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.80	1.00	0.0	0.00	37.79	958	123
70.0	Andrew UHX8-107	1	500	78.0	8.9	106.5	41.7	1.00	0.96	-2.0	4,803.89	37.71	2402	450
56.5	Ericsson AIR 6472 B77G B77M (9	3	93	4.9	3.0	16.1	7.5	0.80	0.65	0.0	0.00	37.18	241	250
55.0	Raycap DC6-48-60-18-8C-EV (Enc	3	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	37.09	136	43
54.0	Ericsson Radio 4471 B30	3	29	1.2	1.2	10.3	5.1	0.80	0.50	0.0	0.00	37.03	46	77
54.0	Ericsson Radio 4490HP B5 B13	3	68	2.2	1.5	15.1	6.8	0.80	0.67	0.0	0.00	37.03	111	184
54.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	37.03	111	155
54.0	Ericsson Radio 4890HP 48B2 48B	3	70	2.2	1.5	15.2	7.0	0.80	0.67	0.0	0.00	37.03	112	188
54.0	Commscope NNH4-65C-R6	6	111	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	37.03	1651	597
53.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	36.96	682	1890
34.0	Gabriel QF2-52-N	1	20	5.2	2.0	24.0	0.0	0.90	1.00	0.0	0.00	35.16	141	18
25.0	Generic Radio/ODU	1	30	1.6	1.3	12.0	8.0	1.00	1.00	0.0	0.00	33.67	46	27
25.0	Andrew Microwaves PAR6-59	1	134	52.8	6.4	76.3	13.2	1.00	0.92	0.0	0.00	33.67	1391	121
Totals		62	11,385	647.9									14,005	10,246

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
107.6	Generic 14' Omni	3	60	5.2	14.0	3.0	3.0	0.75	1.00	0.0	0.00	15.18	150	205
98.6	Generic 96" x 12" Panel	2	87	12.1	8.0	12.0	6.0	0.75	0.76	0.0	0.00	15.16	178	191
95.0	Generic Flat Platform with Han	1	2842	46.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	15.14	598	3342
87.0	Andrew Microwaves VHLPX6-11/A	1	279	38.0	6.1	73.6	36.5	0.90	1.00	0.0	0.00	15.10	438	307
77.0	Fastback Networks Intelligent	1	12	0.8	0.9	7.9	3.5	0.80	1.00	0.0	0.00	15.01	8	14
77.0	DragonWave Horizon Compact Plu	1	11	0.8	0.8	8.7	4.0	0.80	1.00	0.0	0.00	15.01	8	13
77.0	Commscope HELIAX FiberFeed 12	2	25	1.1	1.4	6.7	4.7	0.80	0.50	0.0	0.00	15.01	11	59
77.0	Nokia AirScale Dual RRH 4T4R B	3	96	2.4	1.8	12.1	7.4	0.80	0.50	0.0	0.00	15.01	37	338
77.0	Nokia AHFIG	3	94	3.3	2.3	13.4	6.8	0.80	0.50	0.0	0.00	15.01	51	331

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
77.0	Andrew VHLP2-11	1	46	4.9	2.2	26.1	13.2	0.80	0.99	0.0	0.00	15.01	50	51
77.0	Generic Mount Reinforcement	3	237	5.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	15.01	114	831
77.0	Nokia AEHC	3	133	7.2	3.2	21.5	8.1	0.80	0.62	0.0	0.00	15.01	136	461
77.0	Generic Round Sector Frame	3	886	17.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	15.01	378	3078
77.0	Commscope FFVV-65C-R3-V1	3	203	21.8	8.0	25.2	9.3	0.80	0.63	0.0	0.00	15.01	421	685
70.0	Andrew Microwaves VHLPX6-11/A	1	278	37.9	6.1	73.6	36.5	0.80	1.00	0.0	0.00	14.93	385	305
70.0	Andrew UHX8-107	1	793	79.0	8.9	106.5	41.7	1.00	0.96	-2.0	1,921.71	14.90	961	893
56.5	Ericsson AIR 6472 B77G B77M (9	3	115	5.2	3.0	16.1	7.5	0.80	0.65	0.0	0.00	14.69	101	399
55.0	Raycap DC6-48-60-18-8C-EV (Enc	3	32	2.9	2.2	12.4	9.7	0.80	0.67	0.0	0.00	14.65	58	105
54.0	Ericsson Radio 4471 B30	3	35	1.4	1.2	10.3	5.1	0.80	0.50	0.0	0.00	14.63	20	122
54.0	Ericsson Radio 4490HP B5 B13	3	79	2.4	1.5	15.1	6.8	0.80	0.67	0.0	0.00	14.63	48	278
54.0	Ericsson Radio 4494 44B14 20B2	3	68	2.4	1.5	15.1	5.6	0.80	0.67	0.0	0.00	14.63	48	237
54.0	Ericsson Radio 4890HP 48B2 48B	3	81	2.4	1.5	15.2	7.0	0.80	0.67	0.0	0.00	14.63	48	284
54.0	Commscope NNH4-65C-R6	6	172	17.8	8.0	19.6	7.8	0.80	0.64	0.0	0.00	14.63	679	1164
53.0	Generic Round Sector Frame	3	883	17.5	0.0	0.0	0.0	0.75	0.67	0.0	0.00	14.60	327	3068
34.0	Gabriel QF2-52-N	1	30	5.5	2.0	24.0	0.0	0.90	1.00	0.0	0.00	13.89	59	34
25.0	Generic Radio/ODU	1	39	1.8	1.3	12.0	8.0	1.00	1.00	0.0	0.00	13.30	20	45
25.0	Andrew Microwaves PAR6-59	1	230	53.7	6.4	76.3	13.2	1.00	0.92	0.0	0.00	13.30	559	257
Totals		62	14,821	694.2									5889	17,097

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
107.6	Generic 14' Omni	3	40	4.2	14.0	3.0	3.0	0.75	1.00	0.0	0.00	12.54	101	120
98.6	Generic 96" x 12" Panel	2	45	11.5	8.0	12.0	6.0	0.75	0.76	0.0	0.00	12.53	139	90
95.0	Generic Flat Platform with Han	1	2500	42.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.51	451	2500
87.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.90	1.00	0.0	0.00	12.48	356	137
77.0	Fastback Networks Intelligent	1	9	0.7	0.9	7.9	3.5	0.80	1.00	0.0	0.00	12.41	6	9
77.0	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	1.00	0.0	0.00	12.41	6	8
77.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.80	0.50	0.0	0.00	12.41	8	40
77.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.80	0.50	0.0	0.00	12.41	28	251
77.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.80	0.50	0.0	0.00	12.41	39	238
77.0	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	0.99	0.0	0.00	12.41	39	27
77.0	Generic Mount Reinforcement	3	200	5.0	0.0	0.0	0.0	0.75	0.67	0.0	0.00	12.41	79	600
77.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.80	0.62	0.0	0.00	12.41	107	311
77.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	12.41	256	2100
77.0	Commscope FFVV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	12.41	337	374
70.0	Andrew Microwaves VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	0.80	1.00	0.0	0.00	12.34	313	137
70.0	Andrew UHX8-107	1	500	78.0	8.9	106.5	41.7	1.00	0.96	-2.0	1,568.62	12.31	784	500
56.5	Ericsson AIR 6472 B77G B77M (9	3	93	4.9	3.0	16.1	7.5	0.80	0.65	0.0	0.00	12.14	79	278
55.0	Raycap DC6-48-60-18-8C-EV (Enc	3	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	12.11	44	48
54.0	Ericsson Radio 4471 B30	3	29	1.2	1.2	10.3	5.1	0.80	0.50	0.0	0.00	12.09	15	86
54.0	Ericsson Radio 4490HP B5 B13	3	68	2.2	1.5	15.1	6.8	0.80	0.67	0.0	0.00	12.09	36	204
54.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	12.09	36	172
54.0	Ericsson Radio 4890HP 48B2 48B	3	70	2.2	1.5	15.2	7.0	0.80	0.67	0.0	0.00	12.09	37	208
54.0	Commscope NNH4-65C-R6	6	111	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	12.09	539	663
53.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.00	12.07	223	2100
34.0	Gabriel QF2-52-N	1	20	5.2	2.0	24.0	0.0	0.90	1.00	0.0	0.00	11.48	46	20
25.0	Generic Radio/ODU	1	30	1.6	1.3	12.0	8.0	1.00	1.00	0.0	0.00	10.99	15	30
25.0	Andrew Microwaves PAR6-59	1	134	52.8	6.4	76.3	13.2	1.00	0.92	0.0	0.00	10.99	454	134
Totals		62	11,385	647.9									4,573	11,385

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

TOWER LOADING - LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K _a Override
5.0	100.0	Wave Guide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00
5.0	76.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
5.0	54.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	100.0	Climbing Ladder	1	2.00	6.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	87.0	EWP90	1	1.32	0.32	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	77.0	0.24" (6mm) Cat 5	2	0.24	0.04	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	77.0	0.26" (6.6mm) Cat 5e	1	0.26	0.04	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	77.0	1.46" (37.1mm) Hybrid	2	1.46	1.70	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	70.0	EWP90	2	1.32	0.32	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	55.0	0.39" (10mm) Fiber Trunk	3	0.39	0.06	100	2	Individual	0.00	N	1.00	1.00	0.01
0.0	55.0	0.78" (19.7mm) 8 AWG 6	6	0.78	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	54.0	5/8" Coax	1	0.86	0.15	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	54.0	7/8" Coax	10	1.09	0.33	30	2	Block	0.00	N	1.00	1.00	0.00
0.0	54.0	3/8" (0.38"- 9.5mm) RET Contro	1	0.38	0.23	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	34.0	EWP90	1	1.32	0.32	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	25.0	1/2" Coax	2	0.63	0.15	100	2	Individual	0.00	N	1.00	1.00	0.00

SECTION FORCES

1.2D + 1.0W Normal
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	2037	0	1306	278	1584
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2880	0	1543	581	2125
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	3888	0	1766	1086	2852
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	4624	0	2119	1224	3343
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.28	75.75	0.00	5446	0	2023	1075	3098
Totals															18,876	0	13,002	

1.2D + 1.0W 60°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	2037	0	1130	278	1408
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2880	0	1336	581	1917
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	3888	0	1527	1086	2613
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	4624	0	1810	1224	3034
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	5446	0	1733	1075	2808
Totals															18,876	0	11,780	

1.2D + 1.0W 90°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	2037	0	1174	278	1452
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2880	0	1388	581	1969
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	3888	0	1587	1086	2673
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	4624	0	1887	1224	3111
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	5446	0	1808	1075	2884
Totals															18,876	0	12,089	

1.2D + 1.0W 120°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	2037	0	1306	278	1584
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2880	0	1543	581	2125
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	3888	0	1766	1086	2852
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	4624	0	2119	1224	3343
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.44	76.19	0.00	5446	0	2035	1075	3110
Totals															18,876	0	13,014	

1.2D + 1.0W 180°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	2037	0	1130	278	1408
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2880	0	1336	581	1917
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	3888	0	1527	1086	2613
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	4624	0	1810	1224	3034
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	5446	0	1733	1075	2808
Totals															18,876	0	11,780	

1.2D + 1.0W 210°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	2037	0	1174	278	1452
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2880	0	1388	581	1969
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	3888	0	1587	1086	2673
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	4624	0	1887	1224	3111
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	5446	0	1808	1075	2884
Totals															18,876	0	12,089	

1.2D + 1.0W 240°
 105 mph Wind with No Ice
 Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	2037	0	1306	278	1584
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2880	0	1543	581	2125
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	3888	0	1766	1086	2852
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	4624	0	2119	1224	3343
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.44	76.19	0.00	5446	0	2035	1075	3110
Totals															18,876	0	13,014	

SECTION FORCES

1.2D + 1.0W 240° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
														Totals	18,876	0			13,014

1.2D + 1.0W 300° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	2037	0	1130	278	1408	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2880	0	1336	581	1917	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	3888	0	1527	1086	2613	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	4624	0	1810	1224	3034	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	5446	0	1733	1075	2808	
														Totals	18,876	0			11,780

1.2D + 1.0W 330° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	2037	0	1174	278	1492	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2880	0	1388	581	1969	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	3888	0	1587	1086	2673	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	4624	0	1887	1224	3111	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	5446	0	1808	1075	2884	
														Totals	18,876	0			12,089

0.9D + 1.0W Normal Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1528	0	1306	278	1584	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2160	0	1543	581	2125	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	2916	0	1766	1086	2852	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	3468	0	2119	1224	3343	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.44	76.19	0.00	4084	0	2035	1075	3110	
														Totals	14,157	0			13,014

0.9D + 1.0W 60° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1528	0	1130	278	1408	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2160	0	1336	581	1917	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	2916	0	1527	1086	2613	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	3468	0	1810	1224	3034	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	4084	0	1733	1075	2808	
														Totals	14,157	0			11,780

0.9D + 1.0W 90° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1528	0	1174	278	1452	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2160	0	1388	581	1969	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	2916	0	1587	1086	2673	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	3468	0	1887	1224	3111	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	4084	0	1808	1075	2884	
														Totals	14,157	0			12,089

0.9D + 1.0W 120° Gust Response Factor (Gh): 0.85
 105 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1528	0	1306	278	1584	
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2160	0	1543	581	2125	
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	2916	0	1766	1086	2852	
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	3468	0	2119	1224	3343	
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.44	76.19	0.00	4084	0	2035	1075	3110	
														Totals	14,157	0			13,014

SECTION FORCES

0.9D + 1.0W 180°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1528	0	1130	278	1408
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2160	0	1336	581	1917
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	2916	0	1527	1086	2613
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	3468	0	1810	1224	3034
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	4084	0	1733	1075	2808
Totals														14,157	0	11,780		

0.9D + 1.0W 210°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1528	0	1174	278	1452
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2160	0	1388	581	1969
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	2916	0	1587	1086	2673
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	3468	0	1887	1224	3111
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	4084	0	1808	1075	2884
Totals														14,157	0	12,089		

0.9D + 1.0W 240°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1528	0	1306	278	1584
4	70	37.79	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2160	0	1543	581	2125
3	50	36.76	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.01	56.52	0.00	2916	0	1766	1086	2852
2	30	34.57	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.61	72.13	0.00	3468	0	2119	1224	3343
1	10	31.42	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.44	76.19	0.00	4084	0	2035	1075	3110
Totals														14,157	0	13,014		

0.9D + 1.0W 300°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1528	0	1130	278	1408
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2160	0	1336	581	1917
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.30	48.88	0.00	2916	0	1527	1086	2613
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	21.87	61.59	0.00	3468	0	1810	1224	3034
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.51	64.88	0.00	4084	0	1733	1075	2808
Totals														14,157	0	11,780		

0.9D + 1.0W 330°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	38.26	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1528	0	1174	278	1452
4	70	37.79	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2160	0	1388	581	1969
3	50	36.76	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	17.98	50.79	0.00	2916	0	1587	1086	2673
2	30	34.57	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.81	64.23	0.00	3468	0	1887	1224	3111
1	10	31.42	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.49	67.71	0.00	4084	0	1808	1075	2884
Totals														14,157	0	12,089		

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

66 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	15.12	9.664	13.889	5.56	0.188	2.64	1.00	1.00	0.3	17.62	46.44	5.56	2351	314	597	152	749
4	70	14.93	11.639	15.406	5.39	0.185	2.65	1.00	1.00	0.3	20.45	54.12	5.39	3315	434	687	394	1081
3	50	14.52	13.520	17.486	5.80	0.166	2.71	1.00	1.00	0.3	23.48	63.71	5.80	4542	654	786	753	1540
2	30	13.66	18.703	18.655	6.13	0.164	2.72	1.00	1.00	0.3	29.32	79.73	6.13	5426	802	926	845	1770
1	10	12.41	19.629	17.404	4.88	0.139	2.81	1.00	1.00	0.3	29.49	82.98	4.88	6302	856	875	754	1629
Totals														21,937	3,061	6,769		

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

66 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.80	1.00	0.3	15.68	41.35	5.56	2351	314	531	152	683
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.80	1.00	0.3	18.12	47.96	5.39	3315	434	609	394	1003
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.80	1.00	0.3	20.77	56.37	5.80	4542	654	696	753	1449
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.80	1.00	0.3	25.58	69.56	6.13	5426	802	808	845	1652
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.80	1.00	0.3	25.56	71.93	4.88	6302	856	759	754	1513

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 60°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
Totals																		21,937	3,061	6,300

1.2D + 1.0Di + 1.0Wi 90°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.85	1.00	0.3	16.17	42.62	5.56	2351	314	548	152	699		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.85	1.00	0.3	18.71	49.50	5.39	3315	434	628	394	1022		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.85	1.00	0.3	21.45	58.21	5.80	4542	654	719	753	1472		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.85	1.00	0.3	26.52	72.10	6.13	5426	802	837	845	1682		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.85	1.00	0.3	26.54	74.69	4.88	6302	856	788	754	1542		
Totals																		21,937	3,061	6,417

1.2D + 1.0Di + 1.0Wi 120°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	1.00	1.00	0.3	17.62	46.44	5.56	2351	314	597	152	749		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	1.00	1.00	0.3	20.45	54.12	5.39	3315	434	687	394	1081		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	1.00	1.00	0.3	23.48	63.71	5.80	4542	654	786	753	1540		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	1.00	1.00	0.3	29.32	79.73	6.13	5426	802	926	845	1770		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	1.00	1.00	0.3	29.49	82.98	4.88	6302	856	875	754	1629		
Totals																		21,937	3,061	6,769

1.2D + 1.0Di + 1.0Wi 180°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.80	1.00	0.3	15.68	41.35	5.56	2351	314	531	152	683		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.80	1.00	0.3	18.12	47.96	5.39	3315	434	609	394	1003		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.80	1.00	0.3	20.77	56.37	5.80	4542	654	696	753	1449		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.80	1.00	0.3	25.58	69.56	6.13	5426	802	808	845	1652		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.80	1.00	0.3	25.56	71.93	4.88	6302	856	759	754	1513		
Totals																		21,937	3,061	6,300

1.2D + 1.0Di + 1.0Wi 210°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.85	1.00	0.3	16.17	42.62	5.56	2351	314	548	152	699		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.85	1.00	0.3	18.71	49.50	5.39	3315	434	628	394	1022		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.85	1.00	0.3	21.45	58.21	5.80	4542	654	719	753	1472		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.85	1.00	0.3	26.52	72.10	6.13	5426	802	837	845	1682		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.85	1.00	0.3	26.54	74.69	4.88	6302	856	788	761	1512		
Totals																		21,937	3,061	6,417

1.2D + 1.0Di + 1.0Wi 240°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	1.00	1.00	0.3	17.62	46.44	5.56	2351	314	597	152	749		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	1.00	1.00	0.3	20.45	54.12	5.39	3315	434	687	394	1081		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	1.00	1.00	0.3	23.48	63.71	5.80	4542	654	786	753	1540		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	1.00	1.00	0.3	29.32	79.73	6.13	5426	802	926	845	1770		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	1.00	1.00	0.3	29.49	82.98	4.88	6302	856	875	754	1629		
Totals																		21,937	3,061	6,769

1.2D + 1.0Di + 1.0Wi 300°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	Ar (sf)	Ar (sf)	Ice Ar (sf)	e	Cr	Dl	Dl	Tlz (in)	Ao (sf)	EPAa (sf)	EPAai (sf)	Wt (lb)	Ice Wt (lb)	Fst (lb)	Fa (lb)	Force (lb)		
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.80	1.00	0.3	15.68	41.35	5.56	2351	314	531	152	683		
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.80	1.00	0.3	18.12	47.96	5.39	3315	434	609	394	1003		
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.80	1.00	0.3	20.77	56.37	5.80	4542	654	696	753	1449		
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.80	1.00	0.3	25.58	69.56	6.13	5426	802	808	845	1652		
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.80	1.00	0.3	25.56	71.93	4.88	6302	856	759	754	1513		
Totals																		21,937	3,061	6,300

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 330°
 66 mph Wind with 0.25" Radial Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00
 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	15.12	9.664	13.889	5.56	0.188	2.64	0.85	1.00	0.3	16.17	42.62	5.56	2351	314	548	152	699	
4	70	14.93	11.639	15.406	5.39	0.185	2.65	0.85	1.00	0.3	18.71	49.50	5.39	3315	434	628	394	1022	
3	50	14.52	13.520	17.486	5.80	0.166	2.71	0.85	1.00	0.3	21.45	58.21	5.80	4542	654	719	753	1472	
2	30	13.66	18.703	18.655	6.13	0.164	2.72	0.85	1.00	0.3	26.52	72.10	6.13	5426	802	837	845	1682	
1	10	12.41	19.629	17.404	4.88	0.139	2.81	0.85	1.00	0.3	26.54	74.69	4.88	6302	856	788	754	1542	
														Totals	21,937	3,061			6,417

1.0D + 1.0W Service Normal
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1698	0	426	91	517	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2400	0	504	190	694	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.14	56.89	0.00	3240	0	580	354	935	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.80	72.64	0.00	3854	0	697	400	1097	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.71	76.97	0.00	4538	0	671	351	1022	
														Totals	15,730	0			4,265

1.0D + 1.0W Service 60°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1698	0	369	91	460	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2400	0	436	190	626	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.43	49.25	0.00	3240	0	502	354	857	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	22.05	62.11	0.00	3854	0	596	400	996	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.78	65.65	0.00	4538	0	572	351	924	
														Totals	15,730	0			3,862

1.0D + 1.0W Service 90°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1698	0	383	91	474	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2400	0	453	190	643	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	18.11	51.16	0.00	3240	0	522	354	876	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.99	64.74	0.00	3854	0	621	400	1021	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.76	68.48	0.00	4538	0	597	351	948	
														Totals	15,730	0			3,963

1.0D + 1.0W Service 120°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1698	0	426	91	517	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2400	0	504	190	694	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.14	56.89	0.00	3240	0	580	354	935	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.80	72.64	0.00	3854	0	697	400	1097	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.71	76.97	0.00	4538	0	671	351	1022	
														Totals	15,730	0			4,265

1.0D + 1.0W Service 180°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1698	0	369	91	460	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2400	0	436	190	626	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.43	49.25	0.00	3240	0	502	354	857	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	22.05	62.11	0.00	3854	0	596	400	996	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.78	65.65	0.00	4538	0	572	351	924	
														Totals	15,730	0			3,862

1.0D + 1.0W Service 210°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Qz (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{lz} (in)	A _o (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1698	0	383	91	474	
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2400	0	453	190	643	
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	18.11	51.16	0.00	3240	0	522	354	876	
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.99	64.74	0.00	3854	0	621	400	1021	
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.76	68.48	0.00	4538	0	597	351	948	
														Totals	15,730	0			3,963

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

SECTION FORCES

1.0D + 1.0W Service 210°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
															Totals	15,730	0	3,963

1.0D + 1.0W Service 240°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	12.49	9.664	8.333	0.00	0.145	2.79	1.00	1.00	0.0	14.39	40.15	0.00	1698	0	426	91	517
4	70	12.34	11.639	10.017	0.00	0.149	2.77	1.00	1.00	0.0	17.32	48.05	0.00	2400	0	504	190	694
3	50	12.00	13.520	11.686	0.00	0.136	2.83	1.00	1.00	0.0	20.14	56.89	0.00	3240	0	580	354	935
2	30	11.29	18.703	12.521	0.00	0.138	2.82	1.00	1.00	0.0	25.80	72.64	0.00	3854	0	697	400	1097
1	10	10.26	19.629	12.521	0.00	0.121	2.88	1.00	1.00	0.0	26.71	76.97	0.00	4538	0	671	351	1022
															Totals	15,730	0	4,265

1.0D + 1.0W Service 300°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.80	1.00	0.0	12.46	34.76	0.00	1698	0	369	91	460
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.80	1.00	0.0	15.00	41.60	0.00	2400	0	436	190	626
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.80	1.00	0.0	17.43	49.25	0.00	3240	0	502	354	857
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.80	1.00	0.0	22.05	62.11	0.00	3854	0	596	400	996
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.80	1.00	0.0	22.78	65.65	0.00	4538	0	572	351	924
															Totals	15,730	0	3,862

1.0D + 1.0W Service 330°
 60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
 Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
5	90	12.49	9.664	8.333	0.00	0.145	2.79	0.85	1.00	0.0	12.94	36.10	0.00	1698	0	383	91	474
4	70	12.34	11.639	10.017	0.00	0.149	2.77	0.85	1.00	0.0	15.58	43.21	0.00	2400	0	453	190	643
3	50	12.00	13.520	11.686	0.00	0.136	2.83	0.85	1.00	0.0	18.11	51.16	0.00	3240	0	522	354	876
2	30	11.29	18.703	12.521	0.00	0.138	2.82	0.85	1.00	0.0	22.99	64.74	0.00	3854	0	621	400	1021
1	10	10.26	19.629	12.521	0.00	0.121	2.88	0.85	1.00	0.0	23.76	68.48	0.00	4538	0	597	351	948
															Totals	15,730	0	3,963

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_S):	0.26
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.59
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.28
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Seismic Response Coefficient (C_s):	0.09
Upper Limit C_S :	0.09
Lower Limit C_S :	0.03
Period based on Rayleigh Method (sec):	0.41
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.00
Total Unfactored Dead Load:	27.11 k
Seismic Base Shear (E):	3.25 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
5	90.00	1,698	152,780	0.104	337	1,433
4	70.00	2,400	168,028	0.114	371	2,027
3	50.00	3,240	162,020	0.110	358	2,736
2	30.00	3,854	115,610	0.079	255	3,253
1	10.00	4,538	45,381	0.031	100	3,831
Generic 14' Omni	100.00	120	12,000	0.008	27	101
Generic 96" x 12" Panel	98.60	90	8,874	0.006	20	76
Generic Flat Platform with Handrails	95.00	2,500	237,500	0.162	525	2,111
Andrew Microwaves VHLPX6-11/A	87.00	137	11,919	0.008	26	116
Fastback Networks Intelligent Backhaul Radio 1300 Series	77.00	9	678	0.000	1	7
DragonWave Horizon Compact Plus	77.00	8	578	0.000	1	6
Commscope HELIAX FiberFeed 12 RRU Pendant Connect	77.00	40	3,080	0.002	7	34
Nokia AirScale Dual RRH 4T4R B12/71 240W AHLOA	77.00	251	19,358	0.013	43	212
Nokia AHFIG	77.00	238	18,341	0.012	41	201
Andrew VHLP2-11	77.00	27	2,079	0.001	5	23
Generic Mount Reinforcement	77.00	600	46,200	0.031	102	507
Nokia AEHC	77.00	311	23,932	0.016	53	262
Generic Round Sector Frame	77.00	2,100	161,700	0.110	357	1,773
Commscope FFVV-65C-R3-V1	77.00	374	28,783	0.020	64	316
Andrew Microwaves VHLPX6-11/A	70.00	137	9,590	0.006	21	116
Andrew UHX8-107	70.00	500	35,000	0.024	77	422
Ericsson AIR 6472 B77G B77M (92.6lbs)	56.50	278	15,696	0.011	35	235
Raycap DC6-48-60-18-8C-EV (Enclosure)	55.00	48	2,640	0.002	6	41
Ericsson Radio 4471 B30	54.00	86	4,649	0.003	10	73
Ericsson Radio 4490HP B5 B13	54.00	204	11,016	0.008	24	172
Ericsson Radio 4494 44B14 20B29 M01	54.00	172	9,283	0.006	21	145
Ericsson Radio 4890HP 48B2 48B66 S	54.00	208	11,259	0.008	25	176
Commscope NNH4-65C-R6	54.00	663	35,802	0.024	79	560
Generic Round Sector Frame	53.00	2,100	111,300	0.076	246	1,773
Gabriel QF2-52-N	34.00	20	680	0.000	2	17
Generic Radio/ODU	25.00	30	750	0.000	2	25
Andrew Microwaves PAR6-59	25.00	134	3,350	0.002	7	113
Totals		27,115	1,469,854	1.000	3,247	22,892

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
5	90.00	1,698	152,780	0.104	337	2,132
4	70.00	2,400	168,028	0.114	371	3,014
3	50.00	3,240	162,020	0.110	358	4,069
2	30.00	3,854	115,610	0.079	255	4,839

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

1	10.00	4,538	45,381	0.031	100	5,699
Generic 14' Omni	100.00	120	12,000	0.008	27	151
Generic 96" x 12" Panel	98.60	90	8,874	0.006	20	113
Generic Flat Platform with Handrails	95.00	2,500	237,500	0.162	525	3,139
Andrew Microwaves VHLPX6-11/A	87.00	137	11,919	0.008	26	172
Fastback Networks Intelligent Backhaul Radio 1300 Series	77.00	9	678	0.000	1	11
DragonWave Horizon Compact Plus	77.00	8	578	0.000	1	9
Commscope HELIAX FiberFeed 12 RRU Pendant Connect	77.00	40	3,080	0.002	7	50
Nokia AirScale Dual RRH 4T4R B12/71 240W AHLOA	77.00	251	19,358	0.013	43	316
Nokia AHFIG	77.00	238	18,341	0.012	41	299
Andrew VHLP2-11	77.00	27	2,079	0.001	5	34
Generic Mount Reinforcement	77.00	600	48,200	0.031	102	753
Nokia AEHC	77.00	311	23,932	0.016	53	390
Generic Round Sector Frame	77.00	2,100	161,700	0.110	357	2,637
Commscope FFV-65C-R3-V1	77.00	374	28,783	0.020	64	469
Andrew Microwaves VHLPX6-11/A	70.00	137	9,590	0.006	21	172
Andrew UHX8-107	70.00	500	35,000	0.024	77	628
Ericsson AIR 6472 B77G B77M (92.6lbs)	56.50	278	15,696	0.011	35	349
Raycap DC6-48-60-18-8C-EV (Enclosure)	55.00	48	2,640	0.002	6	60
Ericsson Radio 4471 B30	54.00	86	4,649	0.003	10	108
Ericsson Radio 4490HP B5 B13	54.00	204	11,016	0.008	24	256
Ericsson Radio 4494 44B14 20B29 M01	54.00	172	9,283	0.006	21	216
Ericsson Radio 4890HP 48B2 48B66 S	54.00	200	11,259	0.008	25	262
Commscope NNH1-65C-R6	54.00	663	35,802	0.024	79	833
Generic Round Sector Frame	53.00	2,100	111,300	0.076	246	2,637
Gabriel QF2-52-N	34.00	20	000	0.000	2	25
Generic Radio/ODU	25.00	30	750	0.000	2	38
Andrew Microwaves PAR6-59	25.00	134	3,350	0.002	7	168
Totals		27,115	1,469,854	1.000	3,247	34,049

FORCE/STRESS SUMMARY

Section 1 - 0.0' to 20.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									
L SOL - 3 3/4" SOLID	-130.22	1.2D + 1.0W 120°	9.766	50	50	50	62.50	50.00	373.53	0.00	0.00	0	0	35	Member X
D DAE - 2 5X2 5X0 1875	-7.03	0.9D + 1.0W 210°	15.865	50	50	25	125.51	36.00	32.70	55.22	52.20	4	2	22	Member Y

Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
L SOL - 3 3/4" SOLID	114.57	0.9D + 1.0W 60°	50.0	65	497.02	0.00	0.00		0	0	23	Member
D DAE - 2.5X2.5X0.1875	6.92	1.2D + 1.0W 210°	36.0	58	50.31	55.22	41.76	28.75	4	2	24	Blk Shear

Max Splice Forces	Pu	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
	(kip)					
Bot Tension	114.58	0.9D + 1.0W 60°	495.76	5	6	1.75" A36
Bot Compression	137.55	1.2D + 1.0W 120°	410.28	1	0	

Section 2 - 20.0' to 40.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									
L SOL - 3 3/4" SOLID	-102.34	1.2D + 1.0W 120°	6.511	100	100	100	83.34	50.00	299.11	0.00	0.00	0	0	34	Member X

FORCE/STRESS SUMMARY

Section 2 - 20.0' to 40.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
D SAE - 3X3X0.1875	-6.25	1.2D + 1.0W 210°	13.342	50	50	50	134.32	36.00	17.29	27.61	26.10	2	1	36	Member Z

Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
L SOL - 3 3/4" SOLID	89.46	0.9D + 1.0W 60°	50.0	65	497.02	0.00	0.00		0	0	18	Member
D SAE - 3X3X0.1875	6.19	0.9D + 1.0W 210°	36.0	58	31.36	27.61	20.88	15.39	2	1	40	Blk Shear

Max Splice Forces	Pu	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
	(kip)					
Bot Tension	89.20	0.9D + 1.0W 60°	412.17	22	6	1 1/8 A325

Section 3 - 40.0' to 60.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 3 1/2" SOLID	-70.81	1.2D + 1.0W 120°	6.511	100	100	100	89.29	50.00	241.69	0.00	0.00	0	0	29	Member X
D SAE - 2.5X2.5X0.1875	-5.74	0.9D + 1.0W 330°	11.637	50	50	50	141.05	36.00	12.98	27.61	26.10	2	1	44	Member Z

Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
L SOL - 3 1/2" SOLID	61.56	0.9D + 1.0W 60°	50.0	65	432.94	0.00	0.00		0	0	14	Member
D SAE - 2.5X2.5X0.1875	5.82	1.2D + 1.0W 210°	36.0	58	25.22	27.61	20.88	14.38	2	1	40	Blk Shear

Max Splice Forces	Pu	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
	(kip)					
Bot Tension	61.34	0.9D + 1.0W 60°	327.10	19	6	1 A325

Section 4 - 60.0' to 80.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 3" SOLID	-35.94	1.2D + 1.0W 120°	6.511	100	100	100	104.17	50.00	143.87	0.00	0.00	0	0	25	Member X
D SAE - 2.5X2.5X0.1875	-5.00	1.2D + 1.0W 120°	10.04	50	50	50	121.70	36.00	17.35	27.61	26.10	2	1	29	Member Z

Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
L SOL - 3" SOLID	33.06	0.9D + 1.0W 60°	50.0	65	318.10	0.00	0.00		0	0	10	Member
D SAE - 2.5X2.5X0.1875	4.80	0.9D + 1.0W 60°	36.0	58	25.22	27.61	20.88	14.38	2	1	33	Blk Shear

Max Splice Forces	Pu	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
	(kip)					
Bot Tension	32.88	0.9D + 1.0W 60°	249.34	13	6	0.875" A325

Section 5 - 80.0' to 100.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
	(kip)			X	Y	Z									KL/R
L SOL - 2 1/2" SOLID	-9.59	1.2D + 1.0W N	6.583	100	100	100	126.40	50.00	69.43	0.00	0.00	0	0	14	Member X
H SAE - 2X2X0.1875	-0.25	0.9D + 1.0W N	6	100	100	100	182.74	36.00	6.13	13.81	13.05	1	1	4	Member Z
D SAE - 2X2X0.1875	-3.23	1.2D + 1.0W 120°	8.907	50	50	50	135.64	36.00	11.12	27.61	26.10	2	1	29	Member Z

Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
	(kip)											
L SOL - 2 1/2" SOLID	9.24	0.9D + 1.0W 60°	50.0	65	220.95	0.00	0.00		0	0	4	Member
H SAE - 2X2X0.1875	0.34	1.2D + 1.0W 180°	36.0	58	19.12	13.81	7.83	6.83	1	1	5	Blk Shear
D SAE - 2X2X0.1875	3.05	0.9D + 1.0W 60°	36.0	58	19.12	27.61	20.88	12.34	2	1	25	Blk Shear

Max Splice Forces	Pu	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type
	(kip)					
Bot Tension	9.25	0.9D + 1.0W 60°	122.04	8	6	5/8 A325

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	26.75	0.0082	0.0309	0.0229	0.0373
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	33.25	0.0117	-0.0154	0.0281	0.0321
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	53.25	0.0259	0.0662	0.0395	0.0757
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	66.75	0.0376	0.0934	0.0447	0.1019
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	79.75	0.0496	0.0960	0.0841	0.1277
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	93.42	0.0568	0.0362	0.0494	0.0613
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	100.00	0.063	0.0955	0.0605	0.1125
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	26.75	0.0083	0.0242	0.0559	0.1075
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	33.25	0.0116	-0.0266	0.0253	0.0331
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	53.25	0.0264	0.0522	0.0317	0.0413
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	66.75	0.0384	0.0738	0.0444	0.0649
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	79.75	0.0384	0.0738	0.0765	0.1013
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	93.42	0.0501	0.0736	0.0903	0.1165
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	86.83	0.0572	-0.0624	0.0484	0.079
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	93.42	0.0634	0.0729	0.0579	0.093
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	100.00	0.0696	0.0728	0.0523	0.0892
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	26.75	0.0086	0.0236	0.0259	0.034
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	33.25	0.012	-0.0274	0.0330	0.0429
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	53.25	0.0273	0.0508	0.0461	0.0665
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	66.75	0.0397	0.0717	0.0780	0.1038
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	79.75	0.0518	0.0713	0.0906	0.1154
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	86.83	0.0587	-0.0645	0.0487	0.0809
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	93.42	0.0653	0.0707	0.0606	0.0904
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	100.00	0.0716	0.0705	0.0553	0.0896
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	26.75	0.0081	0.0303	0.0228	0.0369
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	33.25	0.0115	-0.0163	0.0285	0.0328
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	53.25	0.0258	0.0649	0.0392	0.074
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	66.75	0.0375	0.0914	0.0448	0.0999
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	79.75	0.0491	0.0940	0.0814	0.1243
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	86.83	0.0562	-0.0386	0.0471	0.0609
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	93.42	0.0624	0.0934	0.0596	0.1091
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	100.00	0.0684	0.0933	0.0529	0.1064
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	26.75	0.008	0.0287	0.0218	0.0361
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	33.25	0.0113	0.0000	0.0262	0.0262
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	53.25	0.0253	0.0612	0.0358	0.0709
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	66.75	0.0368	0.0861	0.0061	0.0862
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	79.75	0.0486	0.0907	0.0780	0.1137
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	86.83	0.0561	0.0000	0.0466	0.0466
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	93.42	0.0614	0.0902	0.0580	0.1073
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	100.00	0.0672	0.0901	0.0535	0.1014
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	26.75	0.0086	-0.0236	0.0259	0.034
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	33.25	0.012	0.0274	0.0330	0.0429
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	53.25	0.0273	-0.0508	0.0461	0.0665
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	66.75	0.0397	-0.0717	0.0780	0.1038
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	79.75	0.0518	-0.0713	0.0906	0.1154
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	86.83	0.0587	0.0645	0.0487	0.0809
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	93.42	0.0653	-0.0707	0.0606	0.0904
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	100.00	0.0716	-0.0705	0.0553	0.0896
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	26.75	0.0085	0.0255	0.0268	0.037
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	33.25	0.0117	0.0317	0.0338	0.0463
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	53.25	0.027	0.0555	0.0476	0.0731
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	66.75	0.0393	0.0790	0.0888	0.1188
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	79.75	0.0512	0.0752	0.0869	0.1124
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	86.83	0.058	0.0749	0.0481	0.089
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	93.42	0.0645	0.0747	0.0583	0.0944
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	100.00	0.0706	0.0746	0.0534	0.0901
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	26.75	0.0083	-0.0242	0.0253	0.0331
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	33.25	0.0116	0.0266	0.0317	0.0413
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	53.25	0.0264	-0.0522	0.0444	0.0649

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	66.75	0.0384	-0.0738	0.0765	0.1013
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	79.75	0.0501	-0.0736	0.0903	0.1165
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	86.83	0.0572	0.0624	0.0484	0.079
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	93.42	0.0634	-0.0729	0.0579	0.093
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	100.00	0.0696	-0.0728	0.0523	0.0892
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	26.75	0.0083	0.0287	0.0226	0.0365
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	33.25	0.012	0.0000	0.0267	0.0267
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	53.25	0.0264	0.0612	0.0380	0.0721
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	66.75	0.0384	0.0861	0.0080	0.0864
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	79.75	0.0508	0.0909	0.0792	0.1167
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	86.83	0.0578	0.0000	0.0508	0.0508
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	93.42	0.0641	0.0904	0.0622	0.1097
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	100.00	0.0702	0.0902	0.0587	0.1021
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	26.75	0.0035	-0.0006	0.0116	0.0116
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	33.25	0.005	0.0004	0.0124	0.0124
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	53.25	0.0116	-0.0011	0.0205	0.0205
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	66.75	0.0172	-0.0011	0.0219	0.0219
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	79.75	0.0232	-0.0020	0.0449	0.0449
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	86.83	0.0266	0.0008	0.0225	0.0226
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	93.42	0.0297	-0.0013	0.0286	0.0286
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	100.00	0.0326	-0.0012	0.0261	0.0261
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	26.75	0.0034	0.0005	0.0113	0.0113
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	33.25	0.0049	0.0006	0.0135	0.0135
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	53.25	0.0116	0.0009	0.0197	0.0197
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	66.75	0.0172	-0.0010	0.0217	0.0217
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	79.75	0.0231	0.0017	0.0470	0.047
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	86.83	0.0265	0.0014	0.0234	0.0234
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	93.42	0.0296	0.0012	0.0286	0.0286
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0255	0.0255
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	26.75	0.0035	0.0005	0.0111	0.0112
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	33.25	0.0049	0.0006	0.0137	0.0137
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	53.25	0.0117	0.0009	0.0199	0.0199
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	66.75	0.0172	-0.0010	0.0216	0.0216
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	79.75	0.0232	0.0017	0.0448	0.0448
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	86.83	0.0264	0.0014	0.0229	0.023
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	93.42	0.0296	-0.0012	0.0287	0.0287
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0265	0.0265
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	26.75	0.0035	-0.0006	0.0116	0.0116
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	33.25	0.005	0.0004	0.0127	0.0127
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	53.25	0.0116	-0.0011	0.0205	0.0205
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	66.75	0.0172	-0.0011	0.0219	0.0219
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	79.75	0.0232	-0.0020	0.0449	0.0449
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	86.83	0.0264	0.0008	0.0217	0.0217
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	93.42	0.0297	-0.0013	0.0286	0.0286
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	100.00	0.0326	-0.0012	0.0261	0.0261
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	26.75	0.0034	0.0005	0.0113	0.0113
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	33.25	0.005	0.0000	0.0122	0.0122
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	53.25	0.0116	0.0009	0.0197	0.0197
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	66.75	0.0172	0.0010	0.0217	0.0217
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	79.75	0.0231	0.0017	0.0470	0.047
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	86.83	0.0265	0.0000	0.0211	0.0211
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	93.42	0.0296	0.0012	0.0286	0.0286
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0255	0.0255
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	26.75	0.0035	0.0005	0.0111	0.0112
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	33.25	0.0049	-0.0006	0.0137	0.0137
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	53.25	0.0117	0.0009	0.0199	0.0199
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	66.75	0.0172	0.0010	0.0216	0.0216
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	79.75	0.0232	0.0017	0.0448	0.0448
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	86.83	0.0264	-0.0014	0.0229	0.023

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	93.42	0.0296	0.0012	0.0287	0.0287
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0265	0.0265
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	26.75	0.0035	-0.0006	0.0116	0.0116
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	33.25	0.0049	-0.0007	0.0141	0.0141
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	53.25	0.0116	-0.0011	0.0205	0.0205
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	66.75	0.0172	-0.0011	0.0219	0.0219
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	79.75	0.0232	-0.0020	0.0449	0.0449
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	86.83	0.0264	-0.0016	0.0237	0.0237
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	93.42	0.0297	-0.0013	0.0286	0.0286
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	100.00	0.0326	-0.0012	0.0261	0.0261
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	26.75	0.0034	0.0005	0.0113	0.0113
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	33.25	0.0049	-0.0006	0.0135	0.0135
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	53.25	0.0116	0.0009	0.0197	0.0197
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	66.75	0.0172	0.0010	0.0217	0.0217
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	79.75	0.0231	0.0017	0.0470	0.0470
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	86.83	0.0265	-0.0014	0.0234	0.0234
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	93.42	0.0296	0.0012	0.0288	0.0288
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0255	0.0255
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	26.75	0.0035	0.0005	0.0111	0.0112
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	33.25	0.0051	0.0000	0.0118	0.0118
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	53.25	0.0117	0.0009	0.0199	0.0199
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	66.75	0.0172	0.0010	0.0216	0.0216
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	79.75	0.0232	0.0017	0.0449	0.0449
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	86.83	0.0266	0.0000	0.0221	0.0221
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	93.42	0.0296	0.0012	0.0287	0.0287
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	100.00	0.0326	0.0010	0.0265	0.0265
1.2D + 1.0Ev + 1.0Eh 330° Seismic	26.75	0.0035	-0.0006	0.0116	0.0116
1.2D + 1.0Ev + 1.0Eh 330° Seismic	33.25	0.005	0.0004	0.0123	0.0123
1.2D + 1.0Ev + 1.0Eh 330° Seismic	53.25	0.0116	-0.0011	0.0205	0.0205
1.2D + 1.0Ev + 1.0Eh 330° Seismic	66.75	0.0172	-0.0011	0.0219	0.0219
1.2D + 1.0Ev + 1.0Eh 330° Seismic	79.75	0.0232	-0.0020	0.0454	0.0454
1.2D + 1.0Ev + 1.0Eh 330° Seismic	86.83	0.0266	0.0008	0.0228	0.0228
1.2D + 1.0Ev + 1.0Eh 330° Seismic	93.42	0.0297	-0.0013	0.0290	0.0290
1.2D + 1.0Ev + 1.0Eh 330° Seismic	100.00	0.0327	-0.0012	0.0264	0.0264
1.2D + 1.0Ev + 1.0Eh 300° Seismic	26.75	0.0034	0.0005	0.0113	0.0113
1.2D + 1.0Ev + 1.0Eh 300° Seismic	33.25	0.005	0.0006	0.0135	0.0135
1.2D + 1.0Ev + 1.0Eh 300° Seismic	53.25	0.0116	0.0009	0.0197	0.0197
1.2D + 1.0Ev + 1.0Eh 300° Seismic	66.75	0.0172	-0.0010	0.0218	0.0218
1.2D + 1.0Ev + 1.0Eh 300° Seismic	79.75	0.0231	0.0017	0.0476	0.0476
1.2D + 1.0Ev + 1.0Eh 300° Seismic	86.83	0.0265	0.0014	0.0235	0.0235
1.2D + 1.0Ev + 1.0Eh 300° Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh 300° Seismic	100.00	0.0327	0.0010	0.0254	0.0254
1.2D + 1.0Ev + 1.0Eh 240° Seismic	26.75	0.0035	0.0005	0.0111	0.0111
1.2D + 1.0Ev + 1.0Eh 240° Seismic	33.25	0.0049	0.0006	0.0137	0.0138
1.2D + 1.0Ev + 1.0Eh 240° Seismic	53.25	0.0117	0.0009	0.0200	0.0200
1.2D + 1.0Ev + 1.0Eh 240° Seismic	66.75	0.0172	-0.0010	0.0215	0.0216
1.2D + 1.0Ev + 1.0Eh 240° Seismic	79.75	0.0232	0.0017	0.0444	0.0444
1.2D + 1.0Ev + 1.0Eh 240° Seismic	86.83	0.0264	0.0014	0.0228	0.0229
1.2D + 1.0Ev + 1.0Eh 240° Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh 240° Seismic	100.00	0.0327	0.0010	0.0268	0.0268
1.2D + 1.0Ev + 1.0Eh 210° Seismic	26.75	0.0035	-0.0006	0.0116	0.0116
1.2D + 1.0Ev + 1.0Eh 210° Seismic	33.25	0.0049	0.0004	0.0128	0.0128
1.2D + 1.0Ev + 1.0Eh 210° Seismic	53.25	0.0116	-0.0011	0.0205	0.0205
1.2D + 1.0Ev + 1.0Eh 210° Seismic	66.75	0.0172	-0.0011	0.0219	0.0219
1.2D + 1.0Ev + 1.0Eh 210° Seismic	79.75	0.0232	-0.0020	0.0454	0.0454
1.2D + 1.0Ev + 1.0Eh 210° Seismic	86.83	0.0264	0.0008	0.0215	0.0215
1.2D + 1.0Ev + 1.0Eh 210° Seismic	93.42	0.0297	-0.0013	0.0290	0.0290
1.2D + 1.0Ev + 1.0Eh 210° Seismic	100.00	0.0327	-0.0012	0.0264	0.0264
1.2D + 1.0Ev + 1.0Eh 180° Seismic	26.75	0.0034	0.0005	0.0113	0.0113

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 180° Seismic	33.25	0.005	0.0000	0.0123	0.0123
1.2D + 1.0Ev + 1.0Eh 180° Seismic	53.25	0.0116	0.0009	0.0197	0.0197
1.2D + 1.0Ev + 1.0Eh 180° Seismic	66.75	0.0172	0.0010	0.0218	0.0218
1.2D + 1.0Ev + 1.0Eh 180° Seismic	79.75	0.0231	0.0017	0.0476	0.0476
1.2D + 1.0Ev + 1.0Eh 180° Seismic	86.83	0.0265	0.0000	0.0208	0.0208
1.2D + 1.0Ev + 1.0Eh 180° Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh 180° Seismic	100.00	0.0327	0.0010	0.0254	0.0254
1.2D + 1.0Ev + 1.0Eh 120° Seismic	26.75	0.0035	0.0005	0.0111	0.0111
1.2D + 1.0Ev + 1.0Eh 120° Seismic	33.25	0.0049	-0.0006	0.0137	0.0138
1.2D + 1.0Ev + 1.0Eh 120° Seismic	53.25	0.0117	0.0009	0.0200	0.02
1.2D + 1.0Ev + 1.0Eh 120° Seismic	66.75	0.0172	0.0010	0.0215	0.0216
1.2D + 1.0Ev + 1.0Eh 120° Seismic	79.75	0.0232	0.0017	0.0444	0.0444
1.2D + 1.0Ev + 1.0Eh 120° Seismic	86.83	0.0264	-0.0014	0.0228	0.0229
1.2D + 1.0Ev + 1.0Eh 120° Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh 120° Seismic	100.00	0.0327	0.0010	0.0268	0.0268
1.2D + 1.0Ev + 1.0Eh 90° Seismic	26.75	0.0035	-0.0006	0.0116	0.0116
1.2D + 1.0Ev + 1.0Eh 90° Seismic	33.25	0.0049	-0.0007	0.0141	0.0141
1.2D + 1.0Ev + 1.0Eh 90° Seismic	53.25	0.0116	-0.0011	0.0205	0.0205
1.2D + 1.0Ev + 1.0Eh 90° Seismic	66.75	0.0172	-0.0011	0.0219	0.0219
1.2D + 1.0Ev + 1.0Eh 90° Seismic	79.75	0.0232	-0.0020	0.0454	0.0454
1.2D + 1.0Ev + 1.0Eh 90° Seismic	86.83	0.0264	-0.0016	0.0237	0.0238
1.2D + 1.0Ev + 1.0Eh 90° Seismic	93.42	0.0297	-0.0013	0.0290	0.029
1.2D + 1.0Ev + 1.0Eh 90° Seismic	100.00	0.0327	-0.0012	0.0264	0.0264
1.2D + 1.0Ev + 1.0Eh 60° Seismic	26.75	0.0034	0.0005	0.0113	0.0113
1.2D + 1.0Ev + 1.0Eh 60° Seismic	33.25	0.005	-0.0006	0.0135	0.0135
1.2D + 1.0Ev + 1.0Eh 60° Seismic	53.25	0.0116	0.0009	0.0197	0.0197
1.2D + 1.0Ev + 1.0Eh 60° Seismic	66.75	0.0172	0.0010	0.0218	0.0218
1.2D + 1.0Ev + 1.0Eh 60° Seismic	79.75	0.0231	0.0017	0.0476	0.0476
1.2D + 1.0Ev + 1.0Eh 60° Seismic	86.83	0.0265	-0.0014	0.0235	0.0236
1.2D + 1.0Ev + 1.0Eh 60° Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh 60° Seismic	100.00	0.0327	0.0010	0.0254	0.0254
1.2D + 1.0Ev + 1.0Eh Normal Seismic	26.75	0.0035	0.0005	0.0111	0.0111
1.2D + 1.0Ev + 1.0Eh Normal Seismic	33.25	0.0051	0.0000	0.0117	0.0117
1.2D + 1.0Ev + 1.0Eh Normal Seismic	53.25	0.0117	0.0009	0.0199	0.02
1.2D + 1.0Ev + 1.0Eh Normal Seismic	66.75	0.0172	0.0010	0.0215	0.0216
1.2D + 1.0Ev + 1.0Eh Normal Seismic	79.75	0.0232	0.0017	0.0444	0.0444
1.2D + 1.0Ev + 1.0Eh Normal Seismic	86.83	0.0267	0.0000	0.0223	0.0223
1.2D + 1.0Ev + 1.0Eh Normal Seismic	93.42	0.0297	0.0012	0.0289	0.0289
1.2D + 1.0Ev + 1.0Eh Normal Seismic	100.00	0.0327	0.0010	0.0268	0.0268
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	26.75	0.013	0.0388	0.0323	0.0485
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	33.25	0.0158	-0.0185	0.0412	0.0451
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	53.25	0.0371	0.0830	0.0556	0.0983
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	66.75	0.0531	0.1169	0.0592	0.129
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	79.75	0.0696	0.1207	0.1158	0.1673
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	86.83	0.0785	-0.0434	0.0688	0.0813
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	93.42	0.0881	0.1203	0.0838	0.146
1.2D + 1.0Di + 1.0Wi 330° 66 mph Wind with 0.25" Radial Ice	100.00	0.0965	0.1202	0.0778	0.1384
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	26.75	0.013	0.0308	0.0351	0.0439
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	33.25	0.016	-0.0327	0.0452	0.0558
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	53.25	0.0367	0.0661	0.0609	0.086
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	66.75	0.053	0.0933	0.1001	0.1307
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	79.75	0.0694	0.0936	0.1239	0.1553
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	86.83	0.0791	-0.0768	0.0674	0.1022
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	93.42	0.0878	0.0932	0.0804	0.1231
1.2D + 1.0Di + 1.0Wi 300° 66 mph Wind with 0.25" Radial Ice	100.00	0.0963	0.0931	0.0726	0.1172
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	26.75	0.0129	0.0296	0.0357	0.0451
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	33.25	0.0171	-0.0342	0.0448	0.0564
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	53.25	0.0384	0.0635	0.0639	0.0876
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	66.75	0.0552	0.0896	0.1020	0.133

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	79.75	0.0718	0.0895	0.1232	0.1523
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	86.83	0.0812	-0.0808	0.0667	0.1048
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	93.42	0.0903	0.0892	0.0833	0.1176
1.2D + 1.0Di + 1.0Wi 240° 66 mph Wind with 0.25" Radial Ice	100.00	0.0989	0.0891	0.0765	0.1175
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	26.75	0.0129	0.0377	0.0320	0.0478
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	33.25	0.0168	-0.0201	0.0379	0.043
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	53.25	0.037	0.0806	0.0555	0.0941
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	66.75	0.0529	0.1133	0.0595	0.1249
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	79.75	0.0688	0.1171	0.1115	0.1617
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	86.83	0.0783	-0.0476	0.0644	0.0801
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	93.42	0.0868	0.1167	0.0819	0.1397
1.2D + 1.0Di + 1.0Wi 210° 66 mph Wind with 0.25" Radial Ice	100.00	0.0953	0.1166	0.0720	0.1365
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	26.75	0.0129	0.0361	0.0307	0.0473
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	33.25	0.0167	0.0000	0.0344	0.0344
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	53.25	0.0364	0.0769	0.0511	0.0917
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	66.75	0.0519	0.1078	0.0146	0.1084
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	79.75	0.0675	0.1143	0.1004	0.1485
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	86.83	0.0771	0.0000	0.0637	0.0637
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	93.42	0.0854	0.1139	0.0795	0.1389
1.2D + 1.0Di + 1.0Wi 180° 66 mph Wind with 0.25" Radial Ice	100.00	0.0938	0.1139	0.0729	0.131
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	26.75	0.0129	-0.0296	0.0357	0.0451
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	33.25	0.0171	0.0342	0.0448	0.0564
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	53.25	0.0384	-0.0635	0.0639	0.0876
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	66.75	0.0552	-0.0896	0.1020	0.133
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	79.75	0.0718	-0.0895	0.1232	0.1523
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	86.83	0.0812	0.0808	0.0667	0.1048
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	93.42	0.0903	-0.0892	0.0833	0.1176
1.2D + 1.0Di + 1.0Wi 120° 66 mph Wind with 0.25" Radial Ice	100.00	0.0989	-0.0891	0.0765	0.1175
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	26.75	0.0127	0.0312	0.0370	0.0484
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	33.25	0.0164	0.0387	0.0470	0.0609
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	53.25	0.0375	0.0677	0.0655	0.0942
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	66.75	0.0545	0.0964	0.1159	0.1507
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	79.75	0.0709	0.0913	0.1189	0.1454
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	86.83	0.0802	0.0910	0.0666	0.1128
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	93.42	0.0893	0.0900	0.0807	0.1211
1.2D + 1.0Di + 1.0Wi 90° 66 mph Wind with 0.25" Radial Ice	100.00	0.0977	0.0908	0.0742	0.1143
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	26.75	0.013	-0.0308	0.0351	0.0439
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	33.25	0.016	0.0327	0.0452	0.0558
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	53.25	0.0367	-0.0661	0.0609	0.086
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	66.75	0.053	-0.0933	0.1001	0.1307
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	79.75	0.0694	-0.0936	0.1239	0.1553
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	86.83	0.0791	0.0768	0.0674	0.1022
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	93.42	0.0878	-0.0932	0.0804	0.1231
1.2D + 1.0Di + 1.0Wi 60° 66 mph Wind with 0.25" Radial Ice	100.00	0.0963	-0.0931	0.0726	0.1172
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	26.75	0.0126	0.0364	0.0316	0.0402
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	33.25	0.0161	0.0000	0.0396	0.0396
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	53.25	0.0374	0.0775	0.0542	0.0945
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	66.75	0.0538	0.1087	0.0161	0.1098
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	79.75	0.0708	0.1155	0.1095	0.1536
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	86.83	0.0796	0.0000	0.0704	0.0704
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	93.42	0.0893	0.1153	0.0860	0.1438
1.2D + 1.0Di + 1.0Wi Normal 66 mph Wind with 0.25" Radial Ice	100.00	0.0977	0.1152	0.0814	0.1329
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0249	0.0997	0.0701	0.1186
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0355	-0.0457	0.0862	0.0976
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0791	0.2128	0.1205	0.2399
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	66.75	0.115	0.2999	0.1364	0.3253
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1511	0.3099	0.2538	0.4006
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1732	-0.1074	0.1486	0.1833
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1921	0.3098	0.1841	0.3576

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2106	0.3097	0.1678	0.3456
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0253	0.0800	0.0769	0.1023
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0354	-0.0825	0.0971	0.1274
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0807	0.1715	0.1360	0.2078
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1176	0.2423	0.2341	0.3228
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1533	0.2441	0.2731	0.3663
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1746	-0.1948	0.1466	0.2438
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1939	0.2440	0.1783	0.2993
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2126	0.2439	0.1600	0.2917
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0262	0.0737	0.0802	0.1087
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0367	-0.0912	0.1011	0.1362
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0835	-0.1592	0.1414	0.213
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1215	-0.2260	0.2399	0.3296
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1584	0.2225	0.2810	0.3585
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1802	-0.2177	0.1505	0.2647
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	93.42	0.2002	0.2225	0.1843	0.2838
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2194	0.2225	0.1669	0.2782
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0249	0.0938	0.0696	0.1134
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0354	-0.0546	0.0870	0.1027
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0791	0.2004	0.1200	0.2284
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1149	0.2810	0.1382	0.3067
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1507	0.2907	0.2526	0.3851
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1726	-0.1307	0.1469	0.1966
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1915	0.2907	0.1833	0.3398
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2101	0.2907	0.1653	0.3292
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0243	0.0909	0.0663	0.1125
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0349	0.0000	0.0798	0.0798
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0776	0.1937	0.1101	0.2228
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	66.75	0.113	0.2712	0.0195	0.2715
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1492	0.2872	0.2365	0.3571
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1696	0.0000	0.1458	0.1458
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1886	0.2872	0.1802	0.3391
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2064	0.2873	0.1676	0.3204
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0262	-0.0737	0.0802	0.1087
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0367	0.0912	0.1011	0.1362
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0835	0.1592	0.1414	0.213
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1215	0.2260	0.2399	0.3296
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1584	-0.2225	0.2810	0.3585
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1802	0.2177	0.1505	0.2647
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	93.42	0.2002	-0.2225	0.1843	0.2838
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2194	-0.2225	0.1669	0.2782
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0259	0.0807	0.0822	0.1152
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0359	0.1002	0.1036	0.1441
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0825	0.1749	0.1459	0.2278
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1203	0.2484	0.2722	0.3685
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1566	0.2383	0.2629	0.3496
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1774	0.2381	0.1471	0.2799
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1974	0.2381	0.1769	0.2966
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	100.00	0.216	0.2380	0.1611	0.2838
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	26.75	0.0253	-0.0800	0.0769	0.1023
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	33.25	0.0354	0.0825	0.0971	0.1274
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	53.25	0.0807	-0.1715	0.1360	0.2078
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	66.75	0.1176	-0.2423	0.2341	0.3228
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	79.75	0.1533	-0.2441	0.2731	0.3663
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	86.83	0.1746	0.1948	0.1466	0.2438
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	93.42	0.1939	-0.2440	0.1783	0.2993
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	100.00	0.2126	-0.2439	0.1600	0.2917
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	26.75	0.0253	0.0904	0.0693	0.1139
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	33.25	0.0364	0.0000	0.0820	0.082

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	53.25	0.0805	0.1924	0.1152	0.2243
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	66.75	0.1172	0.2705	0.0234	0.2711
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	79.75	0.1548	0.2864	0.2448	0.362
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	86.83	0.1761	0.0000	0.1523	0.1523
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	93.42	0.1956	0.2864	0.1876	0.3423
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	100.00	0.2141	0.2863	0.1758	0.3218
1.2D + 1.0W 330° 105 mph Wind with No Ice	26.75	0.0249	0.0997	0.0701	0.1187
1.2D + 1.0W 330° 105 mph Wind with No Ice	33.25	0.0355	-0.0456	0.0862	0.0976
1.2D + 1.0W 330° 105 mph Wind with No Ice	53.25	0.0792	0.2128	0.1207	0.2401
1.2D + 1.0W 330° 105 mph Wind with No Ice	66.75	0.1151	0.3000	0.1365	0.3254
1.2D + 1.0W 330° 105 mph Wind with No Ice	79.75	0.1513	0.3100	0.2545	0.4011
1.2D + 1.0W 330° 105 mph Wind with No Ice	86.83	0.1734	-0.1073	0.1490	0.1836
1.2D + 1.0W 330° 105 mph Wind with No Ice	93.42	0.1923	0.3099	0.1845	0.358
1.2D + 1.0W 330° 105 mph Wind with No Ice	100.00	0.2109	0.3098	0.1683	0.3456
1.2D + 1.0W 300° 105 mph Wind with No Ice	26.75	0.0253	0.0800	0.0769	0.1022
1.2D + 1.0W 300° 105 mph Wind with No Ice	33.25	0.0354	-0.0824	0.0972	0.1274
1.2D + 1.0W 300° 105 mph Wind with No Ice	53.25	0.0808	0.1715	0.1361	0.208
1.2D + 1.0W 300° 105 mph Wind with No Ice	66.75	0.1177	0.2423	0.2342	0.3229
1.2D + 1.0W 300° 105 mph Wind with No Ice	79.75	0.1535	0.2441	0.2738	0.3668
1.2D + 1.0W 300° 105 mph Wind with No Ice	86.83	0.1748	-0.1946	0.1469	0.2438
1.2D + 1.0W 300° 105 mph Wind with No Ice	93.42	0.1941	0.2440	0.1784	0.2996
1.2D + 1.0W 300° 105 mph Wind with No Ice	100.00	0.2128	0.2439	0.1598	0.2916
1.2D + 1.0W 240° 105 mph Wind with No Ice	26.75	0.0262	0.0737	0.0801	0.1087
1.2D + 1.0W 240° 105 mph Wind with No Ice	33.25	0.0367	-0.0912	0.1012	0.1362
1.2D + 1.0W 240° 105 mph Wind with No Ice	53.25	0.0835	-0.1591	0.1416	0.213
1.2D + 1.0W 240° 105 mph Wind with No Ice	66.75	0.1215	-0.2259	0.2400	0.3296
1.2D + 1.0W 240° 105 mph Wind with No Ice	79.75	0.1585	0.2225	0.2808	0.3583
1.2D + 1.0W 240° 105 mph Wind with No Ice	86.83	0.1802	-0.2175	0.1503	0.2644
1.2D + 1.0W 240° 105 mph Wind with No Ice	93.42	0.2003	0.2225	0.1846	0.2835
1.2D + 1.0W 240° 105 mph Wind with No Ice	100.00	0.2195	0.2225	0.1674	0.2784
1.2D + 1.0W 210° 105 mph Wind with No Ice	26.75	0.0249	0.0938	0.0696	0.1135
1.2D + 1.0W 210° 105 mph Wind with No Ice	33.25	0.0354	-0.0546	0.0871	0.1028
1.2D + 1.0W 210° 105 mph Wind with No Ice	53.25	0.0791	0.2005	0.1201	0.2284
1.2D + 1.0W 210° 105 mph Wind with No Ice	66.75	0.115	0.2811	0.1383	0.3067
1.2D + 1.0W 210° 105 mph Wind with No Ice	79.75	0.1507	0.2908	0.2524	0.385
1.2D + 1.0W 210° 105 mph Wind with No Ice	86.83	0.1726	-0.1306	0.1466	0.1964
1.2D + 1.0W 210° 105 mph Wind with No Ice	93.42	0.1916	0.2908	0.1834	0.3397
1.2D + 1.0W 210° 105 mph Wind with No Ice	100.00	0.2102	0.2908	0.1650	0.3294
1.2D + 1.0W 180° 105 mph Wind with No Ice	26.75	0.0243	0.0909	0.0664	0.1126
1.2D + 1.0W 180° 105 mph Wind with No Ice	33.25	0.0349	0.0000	0.0799	0.0799
1.2D + 1.0W 180° 105 mph Wind with No Ice	53.25	0.0776	0.1937	0.1100	0.2228
1.2D + 1.0W 180° 105 mph Wind with No Ice	66.75	0.1131	0.2713	0.0195	0.2716
1.2D + 1.0W 180° 105 mph Wind with No Ice	79.75	0.1492	0.2874	0.2370	0.3572
1.2D + 1.0W 180° 105 mph Wind with No Ice	86.83	0.1696	0.0000	0.1455	0.1455
1.2D + 1.0W 180° 105 mph Wind with No Ice	93.42	0.1886	0.2874	0.1801	0.3391
1.2D + 1.0W 180° 105 mph Wind with No Ice	100.00	0.2065	0.2874	0.1673	0.3206
1.2D + 1.0W 120° 105 mph Wind with No Ice	26.75	0.0262	-0.0737	0.0801	0.1087
1.2D + 1.0W 120° 105 mph Wind with No Ice	33.25	0.0367	0.0912	0.1012	0.1362
1.2D + 1.0W 120° 105 mph Wind with No Ice	53.25	0.0835	0.1591	0.1416	0.213
1.2D + 1.0W 120° 105 mph Wind with No Ice	66.75	0.1215	0.2259	0.2400	0.3296
1.2D + 1.0W 120° 105 mph Wind with No Ice	79.75	0.1585	-0.2225	0.2808	0.3583
1.2D + 1.0W 120° 105 mph Wind with No Ice	86.83	0.1802	0.2175	0.1503	0.2644
1.2D + 1.0W 120° 105 mph Wind with No Ice	93.42	0.2003	-0.2225	0.1846	0.2835
1.2D + 1.0W 120° 105 mph Wind with No Ice	100.00	0.2195	-0.2225	0.1674	0.2784
1.2D + 1.0W 90° 105 mph Wind with No Ice	26.75	0.0259	0.0807	0.0822	0.1152
1.2D + 1.0W 90° 105 mph Wind with No Ice	33.25	0.0359	0.1002	0.1036	0.1441
1.2D + 1.0W 90° 105 mph Wind with No Ice	53.25	0.0826	0.1748	0.1460	0.2278
1.2D + 1.0W 90° 105 mph Wind with No Ice	66.75	0.1203	0.2483	0.2723	0.3685
1.2D + 1.0W 90° 105 mph Wind with No Ice	79.75	0.1567	0.2381	0.2635	0.3497

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 90° 105 mph Wind with No Ice	86.83	0.1775	0.2379	0.1472	0.2797
1.2D + 1.0W 90° 105 mph Wind with No Ice	93.42	0.1976	0.2378	0.1771	0.2965
1.2D + 1.0W 90° 105 mph Wind with No Ice	100.00	0.2162	0.2378	0.1615	0.2836
1.2D + 1.0W 60° 105 mph Wind with No Ice	26.75	0.0253	-0.0800	0.0769	0.1022
1.2D + 1.0W 60° 105 mph Wind with No Ice	33.25	0.0354	0.0824	0.0972	0.1274
1.2D + 1.0W 60° 105 mph Wind with No Ice	53.25	0.0808	-0.1715	0.1361	0.208
1.2D + 1.0W 60° 105 mph Wind with No Ice	66.75	0.1177	-0.2423	0.2342	0.3229
1.2D + 1.0W 60° 105 mph Wind with No Ice	79.75	0.1535	-0.2441	0.2738	0.3668
1.2D + 1.0W 60° 105 mph Wind with No Ice	86.83	0.1748	0.1946	0.1469	0.2438
1.2D + 1.0W 60° 105 mph Wind with No Ice	93.42	0.1941	-0.2440	0.1784	0.2996
1.2D + 1.0W 60° 105 mph Wind with No Ice	100.00	0.2128	-0.2439	0.1598	0.2916
1.2D + 1.0W Normal 105 mph Wind with No Ice	26.75	0.0253	0.0905	0.0693	0.114
1.2D + 1.0W Normal 105 mph Wind with No Ice	33.25	0.0364	0.0000	0.0820	0.082
1.2D + 1.0W Normal 105 mph Wind with No Ice	53.25	0.0806	0.1925	0.1154	0.2245
1.2D + 1.0W Normal 105 mph Wind with No Ice	66.75	0.1173	0.2706	0.0236	0.2712
1.2D + 1.0W Normal 105 mph Wind with No Ice	79.75	0.155	0.2866	0.2447	0.3625
1.2D + 1.0W Normal 105 mph Wind with No Ice	86.83	0.1763	0.0000	0.1528	0.1528
1.2D + 1.0W Normal 105 mph Wind with No Ice	93.42	0.1958	0.2865	0.1881	0.3428
1.2D + 1.0W Normal 105 mph Wind with No Ice	100.00	0.2144	0.2865	0.1764	0.3219

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
	8.08	0.00	0	1	0.00	136.80	-15.81
1.2D + 1.0W Normal	8.08	0.00	120	1a	4.88	-52.13	-5.60
	8.08	0.00	240	1b	-4.88	-52.13	-5.60
1.2D + 1.0W 60°	8.08	0.00	0	1	-2.56	71.58	-7.89
	8.08	0.00	120	1a	-7.81	72.00	2.27
1.2D + 1.0W 90°	8.08	0.00	240	1b	-11.97	-111.04	-7.27
	8.08	0.00	0	1	-3.00	10.96	-0.60
1.2D + 1.0W 120°	8.08	0.00	120	1a	-12.05	117.47	5.86
	8.08	0.00	240	1b	-11.04	-95.89	-5.25
1.2D + 1.0W 180°	8.08	0.00	0	1	-2.72	-51.96	7.02
	8.08	0.00	120	1a	-13.55	137.23	8.18
1.2D + 1.0W 210°	8.08	0.00	240	1b	-7.13	-52.73	-1.70
	8.08	0.00	0	1	0.00	-110.27	13.99
1.2D + 1.0W 240°	8.08	0.00	120	1a	-5.70	71.41	5.90
	8.08	0.00	240	1b	5.70	71.41	5.90
1.2D + 1.0W 300°	8.08	0.00	0	1	1.51	06.03	12.18
	8.08	0.00	120	1a	0.72	10.44	2.44
1.2D + 1.0W 330°	8.08	0.00	240	1b	10.82	117.12	7.98
	8.08	0.00	0	1	2.72	-51.96	7.02
0.9D + 1.0W Normal	8.08	0.00	120	1a	7.13	-52.73	-1.70
	8.08	0.00	240	1b	13.55	137.23	8.18
0.9D + 1.0W 60°	8.08	0.00	0	1	2.56	71.58	-7.89
	8.08	0.00	120	1a	11.97	-111.04	-7.27
0.9D + 1.0W 90°	8.08	0.00	240	1b	7.81	72.00	2.27
	8.08	0.00	0	1	1.49	116.95	-13.36
0.9D + 1.0W 120°	8.08	0.00	120	1a	9.80	-95.55	-7.41
	8.08	0.00	240	1b	1.76	11.13	-1.84
0.9D + 1.0W 180°	8.08	0.00	0	1	0.00	134.00	-15.66
	8.08	0.00	120	1a	5.02	-54.80	-5.68
0.9D + 1.0W 210°	8.08	0.00	240	1b	-5.02	-54.80	-5.68
	8.08	0.00	0	1	-2.56	68.81	-7.73
0.9D + 1.0W 240°	8.08	0.00	120	1a	-7.67	69.27	2.19
	8.08	0.00	240	1b	-12.10	-113.68	-7.35
0.9D + 1.0W 300°	8.08	0.00	0	1	-3.00	8.22	-0.44
	8.08	0.00	120	1a	-11.92	114.72	5.78
0.9D + 1.0W 330°	8.08	0.00	240	1b	-11.17	-98.53	-5.33
	8.08	0.00	0	1	-2.72	-54.67	7.18
1.2D + 1.0Di + 1.0Wi Normal	8.08	0.00	120	1a	-13.41	134.47	8.11
	8.08	0.00	240	1b	-7.27	-55.40	-1.78
1.2D + 1.0Di + 1.0Wi 60°	8.08	0.00	0	1	0.00	-112.95	14.15
	8.08	0.00	120	1a	-5.57	68.68	5.82
	8.08	0.00	240	1b	5.57	68.68	5.82
	8.08	0.00	0	1	1.51	-97.72	12.33
	8.08	0.00	120	1a	0.85	7.75	2.36
	8.08	0.00	240	1b	10.68	114.37	7.90
	8.08	0.00	0	1	2.72	-54.67	7.18
	8.08	0.00	120	1a	7.27	-55.40	-1.78
	8.08	0.00	240	1b	13.41	134.47	8.11
	8.08	0.00	0	1	2.56	68.81	-7.73
	8.08	0.00	120	1a	12.10	-113.68	-7.35
	8.08	0.00	240	1b	7.67	69.27	2.19
	8.08	0.00	0	1	1.49	114.16	-13.20
	8.08	0.00	120	1a	9.93	-98.19	-7.49
	8.08	0.00	240	1b	1.63	8.44	-1.91
	8.08	0.00	0	1	0.00	70.73	-7.20
	8.08	0.00	120	1a	2.43	-15.85	-2.73
	8.08	0.00	240	1b	-2.43	-15.85	-2.73
	8.08	0.00	0	1	-1.22	41.10	-3.52
	8.08	0.00	120	1a	-3.53	41.02	0.92

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi 90°	8.08	0.00	240	1b	-5.80	-43.09	-3.49
	8.08	0.00	0	1	-1.42	13.22	-0.10
1.2D + 1.0Di + 1.0Wi 120°	8.08	0.00	120	1a	-5.52	61.85	2.62
	8.08	0.00	240	1b	-5.37	-36.04	-2.52
1.2D + 1.0Di + 1.0Wi 180°	8.08	0.00	0	1	-1.28	-15.53	3.46
	8.08	0.00	120	1a	-6.17	70.65	3.71
1.2D + 1.0Di + 1.0Wi 210°	8.08	0.00	240	1b	-3.52	-16.09	-0.84
	8.08	0.00	0	1	0.00	-42.54	6.77
1.2D + 1.0Di + 1.0Wi 240°	8.08	0.00	120	1a	-2.50	40.79	2.71
	8.08	0.00	240	1b	2.50	40.79	2.71
1.2D + 1.0Di + 1.0Wi 300°	8.08	0.00	0	1	0.71	-35.44	5.90
	8.08	0.00	120	1a	0.53	12.77	1.10
1.2D + 1.0Di + 1.0Wi 330°	8.08	0.00	240	1b	4.91	61.71	3.66
	8.08	0.00	0	1	1.28	-15.53	3.46
1.2D + 1.0Ev + 1.0Eh Normal	8.08	0.00	120	1a	3.52	-16.09	-0.84
	8.08	0.00	240	1b	6.17	70.65	3.71
1.2D + 1.0Ev + 1.0Eh 60°	8.08	0.00	0	1	1.22	41.10	-3.52
	8.08	0.00	120	1a	5.80	-43.09	-3.49
1.2D + 1.0Ev + 1.0Eh 90°	8.08	0.00	240	1b	3.53	41.02	0.92
	8.08	0.00	0	1	0.71	61.89	-6.09
1.2D + 1.0Ev + 1.0Eh 120°	8.08	0.00	120	1a	4.76	-35.90	-3.57
	8.08	0.00	240	1b	0.68	13.04	-1.00
1.2D + 1.0Ev + 1.0Eh 180°	8.08	0.00	0	1	0.00	28.80	-2.50
	8.08	0.00	120	1a	0.14	2.06	-0.35
1.2D + 1.0Ev + 1.0Eh 210°	8.08	0.00	240	1b	-0.14	2.06	-0.35
	8.08	0.00	0	1	-0.23	19.88	-1.57
1.2D + 1.0Ev + 1.0Eh 240°	8.08	0.00	120	1a	-1.48	19.88	0.58
	8.08	0.00	240	1b	-1.07	-6.86	-0.62
1.2D + 1.0Ev + 1.0Eh 300°	8.08	0.00	0	1	-0.27	10.97	-0.64
	8.08	0.00	120	1a	-2.02	26.41	1.01
1.2D + 1.0Ev + 1.0Eh 330°	8.08	0.00	240	1b	-0.92	-4.47	-0.37
	8.08	0.00	0	1	-0.23	2.06	0.30
0.9D - 1.0Ev + 1.0Eh Normal	8.08	0.00	120	1a	-2.17	28.80	1.25
	8.08	0.00	240	1b	-0.37	2.06	0.05
0.9D - 1.0Ev + 1.0Eh 60°	8.08	0.00	0	1	0.00	-6.86	1.23
	8.08	0.00	120	1a	-1.24	19.88	0.99
0.9D - 1.0Ev + 1.0Eh 90°	8.08	0.00	240	1b	1.24	19.88	0.99
	8.08	0.00	0	1	0.13	-4.47	0.98
0.9D - 1.0Ev + 1.0Eh 120°	8.08	0.00	120	1a	-0.42	10.97	0.55
	8.08	0.00	240	1b	1.88	26.41	1.24
0.9D - 1.0Ev + 1.0Eh 180°	8.08	0.00	0	1	0.23	2.06	0.30
	8.08	0.00	120	1a	0.37	2.06	0.05
0.9D - 1.0Ev + 1.0Eh 210°	8.08	0.00	240	1b	2.17	28.80	1.25
	8.08	0.00	0	1	0.23	19.88	-1.57
0.9D - 1.0Ev + 1.0Eh 240°	8.08	0.00	120	1a	1.07	-6.86	-0.62
	8.08	0.00	240	1b	1.48	19.88	0.58
0.9D - 1.0Ev + 1.0Eh 300°	8.08	0.00	0	1	0.13	26.41	-2.25
	8.08	0.00	120	1a	0.78	-4.47	-0.61
0.9D - 1.0Ev + 1.0Eh 330°	8.08	0.00	240	1b	0.69	10.97	0.09
	8.08	0.00	0	1	0.00	25.19	-2.30
0.9D - 1.0Ev + 1.0Eh Normal	8.08	0.00	120	1a	0.32	-1.53	-0.45
	8.08	0.00	240	1b	-0.32	-1.53	-0.45
0.9D - 1.0Ev + 1.0Eh 60°	8.08	0.00	0	1	-0.23	16.28	-1.36
	8.08	0.00	120	1a	-1.30	16.28	0.48
0.9D - 1.0Ev + 1.0Eh 90°	8.08	0.00	240	1b	-1.25	-10.44	-0.72
	8.08	0.00	0	1	-0.27	7.38	-0.43
0.9D - 1.0Ev + 1.0Eh 120°	8.08	0.00	120	1a	-1.84	22.80	0.91
	8.08	0.00	240	1b	-1.10	-8.05	-0.48
0.9D - 1.0Ev + 1.0Eh 180°	8.08	0.00	0	1	-0.23	-1.53	0.51

ASSET: 302446, Canon City CO 2
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 PROJECT: 14872928_C3_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
	8.08	0.00	120	1a	-1.99	25.19	1.15
	8.08	0.00	240	1b	-0.55	-1.53	-0.05
	8.08	0.00	0	1	0.00	-10.44	1.44
0.9D - 1.0Ev + 1.0Eh 180°	8.08	0.00	120	1a	-1.06	16.28	0.88
	8.08	0.00	240	1b	1.06	16.28	0.88
	8.08	0.00	0	1	0.13	-8.05	1.19
0.9D - 1.0Ev + 1.0Eh 210°	8.08	0.00	120	1a	-0.24	7.38	0.45
	8.08	0.00	240	1b	1.70	22.80	1.14
	8.08	0.00	0	1	0.23	-1.53	0.51
0.9D - 1.0Ev + 1.0Eh 240°	8.08	0.00	120	1a	0.55	-1.53	-0.05
	8.08	0.00	240	1b	1.99	25.19	1.15
	8.08	0.00	0	1	0.23	16.28	-1.36
0.9D - 1.0Ev + 1.0Eh 300°	8.08	0.00	120	1a	1.25	-10.44	-0.72
	8.08	0.00	240	1b	1.30	16.28	0.48
	8.08	0.00	0	1	0.13	22.80	-2.05
0.9D - 1.0Ev + 1.0Eh 330°	8.08	0.00	120	1a	0.96	-8.05	-0.71
	8.08	0.00	240	1b	0.50	7.38	-0.02
	8.08	0.00	0	1	0.00	50.25	-5.50
1.0D + 1.0W Service Normal	8.08	0.00	120	1a	1.32	-11.57	-1.67
	8.08	0.00	240	1b	-1.32	-11.57	-1.67
	8.08	0.00	0	1	-0.84	28.94	-2.90
1.0D + 1.0W Service 60°	8.08	0.00	120	1a	-2.83	28.99	0.90
	8.08	0.00	240	1b	-3.63	-30.81	-2.21
	8.08	0.00	0	1	-0.98	9.14	-0.52
1.0D + 1.0W Service 90°	8.08	0.00	120	1a	-4.22	43.84	2.08
	8.08	0.00	240	1b	-3.33	-25.86	-1.56
	8.08	0.00	0	1	-0.89	-11.42	1.07
1.0D + 1.0W Service 120°	8.08	0.00	120	1a	-4.71	50.30	2.84
	8.08	0.00	240	1b	-2.05	-11.76	-0.39
	8.08	0.00	0	1	0.00	-30.47	4.25
1.0D + 1.0W Service 180°	8.08	0.00	120	1a	-2.14	28.79	2.09
	8.08	0.00	240	1b	2.14	28.79	2.09
	8.08	0.00	0	1	0.49	-25.49	3.66
1.0D + 1.0W Service 210°	8.08	0.00	120	1a	-0.04	8.88	0.96
	8.08	0.00	240	1b	3.82	43.73	2.78
	8.08	0.00	0	1	0.89	-11.42	1.97
1.0D + 1.0W Service 240°	8.08	0.00	120	1a	2.05	-11.76	-0.39
	8.08	0.00	240	1b	4.71	50.30	2.84
	8.08	0.00	0	1	0.84	28.94	-2.90
1.0D + 1.0W Service 300°	8.08	0.00	120	1a	3.63	-30.81	-2.21
	8.08	0.00	240	1b	2.83	28.99	0.90
	8.08	0.00	0	1	0.49	43.76	-4.69
1.0D + 1.0W Service 330°	8.08	0.00	120	1a	2.92	-25.75	-2.26
	8.08	0.00	240	1b	0.85	9.10	-0.44

ASSET: 302446, Canon City CO 2
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: 14872928_C3_03

MAXIMUM REACTIONS SUMMARY

	<u>Individual</u>		<u>Global (DL+WL+IL)</u>		<u>Global (DL+WL)</u>
Max Uplift:	113.68 (kip)	Moment Ice:	699.77 (kip-ft)	Moment:	1532.37 (kip-ft)
Max Down:	137.23 (kip)	Total Down Ice:	39.03 (kip)	Total Down:	32.54 (kip)
Max Shear:	15.83 (kip)	Total Shear Ice:	12.66 (kip)	Total Shear:	27.02 (kip)

-1.2D + 1.0W 240°

